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NATIONAL MUSEUM

BULLETIN 239

WASHINGTON, D.C.

1964

MUSEUM OF NATURAL HISTORY

The Recent Mollusca of Augustus Addison Gould

Illustrations of the Types Described by Gould With a Bibliography and Catalog of His Species

RICHARD I. JOHNSON

Museum of Comparative Zoology

SMITHSONIAN INSTITUTION
WASHINGTON, D.C. • 1964

Publications of the United States National Museum

The scientific publications of the United States National Museum include two series, *Proceedings of the United States National Museum* and *United States National Museum Bulletin.*

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This work forms number 239 of the *Bulletin* series.

FRANK A. TAYLOR
Director, United States National Museum

U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON: 1964

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C., 20402 – Price $1.50 (Paper Cover)

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The Recent Mollusca of Augustus Addison Gould

Introduction

This study is an attempt to bring together the original references to all the Recent mollusks described by Augustus Addison Gould, to locate as many of the type specimens as possible, and to figure all types previously unfigured, selecting lectotypes when required.

It is not to be inferred that the author regards the fixation of types as a final goal in systematics. Types are only taxonomic building blocks. We are still faced with the problem of taxonomic stability in mollusks, of making "taxonomy 1864" sufficiently precise to serve the needs of "taxonomy 1964" and, although the old typological concept has been replaced by the population concept, we still have to fix and clarify many of the species. In this regard, we should judge the work of older naturalists such as Gould by the best standards of their own times and not by our own.

It has not been our purpose to bring up to date each of the species covered; this is a task for individual revisers. If we have helped to make this task easier and their conclusions more precise, our purpose will have been served.

It gives me pleasure to thank those people whose willing cooperation has eased the task of accumulating data. Special thanks are due to Drs. Harald A. Rehder and Joseph P. E. Morrison of the United States National Museum for their ever-willing aid in searching for types, for suffering numerous interruptions in their own research, for helping with the mounting and dismounting of specimens for photography, and for performing tiresome but necessary tasks connected with the project.

Dr. Vincente Condé made available for study the P. P. Carpenter collection at the Peter Redpath Museum, McGill University, Montreal, Canada, and loaned types for photographing. Drs. J. W. Wells and W. Storrs Cole of Cornell University, Ithaca, New York, made available certain types in the W. Newcomb collection. Dr. W. K. Emerson of the American Museum of Natural History, New York City, and Mr. Peter Dance and Mr. H. M. Muir-Wood of the British

Museum (Natural History) did the same for the collections in their charge.

All the photographs were prepared by Frank White, staff photographer for the Biological Laboratories, Harvard University, save those which bear United States National Museum numbers. These were prepared by courtesy of the Smithsonian Institution.

Drs. W. J. Clench, R. D. Turner, and M. E. Champion of the Museum of Comparative Zoology, Cambridge, Massachusetts, were kind enough to read the manuscript and offer many helpful suggestions.

Finally, I wish to thank my wife, who helped to prepare the manuscript for press.

Gould: Early Years

Augustus Addison Gould, a Boston physician, was one of the leading figures in the second epoch of American conchology, which, in fact, was termed the "Gouldian Period" by William H. Dall (1888, p. 97). This period began in 1841 with the publication of Gould's "Report on the Invertebrata of Massachusetts," and, according to Dall, "was characterized by the broader scope of investigation, the interest in geographical distribution, the anatomy of the soft parts, and the more precise definition and exact discrimination of specific forms."

Augustus was born on April 23, 1805, in New Ipswich, New Hampshire, the son of Nathaniel Duren Gould and Sally Andrews Prichard. Married on November 15, 1801, the Goulds had eight children, three of whom died in infancy. Augustus was the second child and first survivor. We learn by way of genealogical background that the elder Gould had been adopted by a maternal uncle at the age of 11 and that his name had been changed then from Nathaniel Gould Duren to Nathaniel Duren Gould. We also find that the forebears on both sides of the family were "Old Yankees," having emigrated to America in the middle of the 17th century.

Nathaniel Gould was a musician, a teacher of singing, and an engraver noted for his penmanship. He tried many occupations—school teaching, farming, politics—and was a town selectman from 1807 until he left New Ipswich in 1815. That year he went to Boston to seek his fortune, leaving the farm in the hands of his family. From 1817 to 1820 Nathaniel was a member of the Massachusetts State Legislature. He taught in the grammar schools during the day and gave music lessons in the evenings. Later in life he was engaged to engross Harvard diplomas.

Young Augustus remained on the farm. At the age of 15, he took complete charge of the work but devoted part of his time to study at the New Ipswich Appleton Academy. In 1821, at the age

of 17, he went to Cambridge and entered Harvard College. He worked hard to support himself and, by frugality and application, he was able to matriculate with respectable grades. Among his classmates young Gould was noted for his industry. It was here that his interest in natural history began to develop. He became familiar with native plants, an interest that he never lost. In later life he caused labels with both Latin and common names to be placed on the trees of the Boston Common, a custom that is followed to this day.

After graduating from college, Gould was employed as a private tutor by the McBlair family of Baltimore County, Maryland. At the same time, he began the study of medicine. Most of his medical studies were carried on in Boston, and during 1829–1830 he was a student at the Massachusetts General Hospital under Drs. James Jackson and Walter Channing. In 1830, at the age of 25, Gould was able to affix a well-earned M.D. to his name. The young physician soon gave indications of future success but, until his practice was large enough to support him, he was forced to work outside his profession. During this period, he cataloged and classified the 50,000 pamphlets in the Boston Athenaeum. For these four folio volumes of careful and patient industry, he received $50.00!

On February 9, 1830, the Boston Society of Natural History held its first meeting at the home of Dr. Walter Channing. Among the seven identified members present was Dr. Amos Binney, Jr., who was to achieve posthumous fame for his "Terrestrial Mollusca of the United States," edited by Dr. Gould. It is not recorded that young Gould was present at this meeting, but it is known that he was soon active in the new society. It was incorporated on March 18, 1831, and on May 4 he was appointed a curator. At this time the curators were not assigned to special departments.

During March of 1833 the Society moved from its rooms in the Athenaeum Building on Pearl Street to the new building of the Savings Bank on Tremont Street. Dr. Gould gave one of the lecture courses offered that year by the Society, and also he published his first work, a modest volume entitled "Lamarck's Genera of Shells," which was translated from French. Before 1833 was over, on November 25, Dr. Gould married Harriet Cushing Sheafe. She too was from old colonial stock, being related to the Loring, Cushing, and Quincy families. They had ten children, seven of whom grew to maturity. Mrs. Gould survived the Doctor by many years, dying at the age of 82 on May 14, 1893.

In 1834, Gould produced a paper on the Cicindelidae of Massachusetts, a group of insects. From this time on, however, he devoted all of his leisure to the study of mollusks. Throughout this paper

it should be remembered that Gould was first of all a medical man. Medicine was his life's work and he achieved eminence in the field. The time for his work on mollusks was often stolen from the hours for sleep. He frequently arose at four a.m. and went to the Society to work on the collections before his professional duties demanded attention.

For two years Gould taught botany and zoology at Harvard College. It was in January of 1840 that he described 13 new species of shells from Massachusetts. These were the first of the descriptions which would number almost 1100 by the time of his death.

The first indication of his skill as a draftsman, an ability he shared with his father, emerged in a paper in which he attempted to bring order to the genus *Pupa*, a group of very small land snails. In this work some 30 species were carefully drawn with the aid of a microscope.

"Invertebrata of Massachusetts."—In April of 1837 the General Court of Massachusetts authorized a geological survey of the state which was also to include reports on botany and zoology. Dr. Gould was assigned the Invertebrata, exclusive of insects. His preliminary findings were published in 1840 in a paper entitled "Results of an Examination of the Species of Shells of Massachusetts and Their Geographical Distribution." This was an epoch-making work since the problem had received very little attention elsewhere and none in the United States. He noted that Cape Cod formed a barrier to some species. Of 203 species, he found 80 that did not pass south of the Cape and 30 that did not go north. Certain species, he noted, appear and disappear suddenly in an area, and he stated that it is necessary to collect over a period of years to be certain of the distribution.

The "Report on the Invertebrata of Massachusetts," appearing in 1841, was the first monograph published in the United States that attempted to describe the entire molluscan fauna of a geographical region. It is an octavo volume of almost 400 pages, illustrated by more than 200 figures drawn by the author, who stated (p. xi):

> Every species described, indeed almost every species mentioned, has passed under my own eye. The descriptions of species previously known, have been written anew; partly, that they may be more minute in particulars, and partly, with the hope of using language somewhat less technical than is ordinarily employed by scientific men.

About 275 mollusks are described, in addition to some 100 other invertebrates. The volume immediately gave him an international reputation. Even after the lapse of over a hundred years, it is still *the* book on New England mollusks. He received a very flattering letter (quoted in Wyman, 1905, p. 98) from Louis Agassiz.

Specimens of almost every species were deposited in the collection of the Boston Society of Natural History and in the Cabinet of the

State of Massachusetts. Through the course of time, both of these collections have been deposited in the Museum of Comparative Zoology and, though they have suffered numerous vicissitudes over the years through renumbering, relabeling, and neglect, it has still been possible to relocate some of the types which the collections contained.

Shells from Liberia and Burma.—During the years of 1843–1850 when Gould was corresponding secretary of the Society, he made numerous notes which are recorded in the Proceedings. Among these notes are descriptions from remote places of material given him by missionaries and travellers. The Rev. Francis Mason of Newton, Massachusetts, sent him many new species from Burma and Drs. Savage and Perkins and Mr. Charles J. Bates sent him new shells from Liberia. It was at about this time, in 1846, that Gould began his major descriptive work, the shells of the United States Exploring Expedition.

The United States Exploring Expedition

During the second quarter of the 19th century a number of ambitious exploring expeditions were carried out in the Pacific Ocean by some of the great European powers. Between 1825 and 1828 the British ship *Blossom* explored the Pacific under the command of Captain F. W. Beechey, and from 1826 to 1829 France employed the *Astrolabe* under Dumont d'Urville in the same area.

The South Pacific and Antarctic Seas had been frequented by American whalers and trading vessels since the early years of the century, but more information was required about these little known and poorly charted regions. It was not until May 21, 1828, however, that the House of Representatives of the United States adopted the following resolution:

> *Resolved*, That it is expedient that one of our small public vessels be sent to the Pacific Ocean and South Seas, to examine the coasts, islands, harbours, shoals and reefs, in those seas, and to ascertain their true situation and description (Haskell, 1942, p. 2).

President John Quincy Adams, who had recommended a more limited expedition, and his Secretary of the Navy, Samuel L. Southard, proceeded with preparations for the voyage. The Senate failed to ratify the measure and Southard was severely censured, but later, as a senator himself, he was able to support the same projected expedition.

The dogged determination of J. N. Reynolds of Ohio, who in 1834 published the "Voyage of the United States Frigate *Potomac* . . . During the Circumnavigation of the Globe in the Years 1831–34," finally made the project a reality. Incessantly he urged the government to send out to the South Seas a surveying expedition—to be

accompanied by a large staff of scientists in order that maximum results could be realized. He spoke before Congress, secured the backing of scientific organizations, and obtained the necessary newspaper publicity.

His efforts were finally rewarded by the passage of a bill on May 14, 1836, authorizing President Andrew Jackson "to send out a surveying and exploring expedition to the Pacific Ocean and South Seas." The act was certainly in the spirit of the times: the French sent the *Bonité* around the world in 1836–1837, the *Venus* in 1836–1839, the *Astrolabe* and *Zelée* to the Antarctic and the islands of the Pacific in 1837–1840, and the British sent the *Sulphur* to the South Pacific in 1836–1842. Before the United States Exploring Expedition set sail, all of these expeditions had been completed or were on the high seas.

The Department of the Navy appointed Captain Thomas Catesby Jones to be commander of the voyage. Then followed nearly two years of delay, of cross-purposes, charges, countercharges, and, above all, general inefficiency. At last, Jones resigned in discouragement and disgust. In March 1838 the command was given to Charles Wilkes despite the protests of many who claimed that he had intrigued to obtain the post. Perhaps he did, but as events proved, he showed himself to have the ability and energy to do the work required.

Charles Wilkes.—Born in New York City in 1789, Charles Wilkes became a midshipman in the United States Navy in 1818. By 1836 his experience included cruises to the Mediterranean and the Pacific, surveys of Narragansett Bay and Georges Bank on the southern coast of Massachusetts, and surveys of the Savannah River between South Carolina and Georgia. For some time, he was head of the Depot of Charts and Instruments, the forerunner of the Hydrographic Office and Naval Observatory. Wilkes was described as an impetuous and dominating man with great determination and drive. He was a strict disciplinarian and was often in conflict with both superiors and subordinates, a characteristic which earned him the title of "the stormy petrel." After the voyage, in the years prior to the Civil War, he was engaged in the difficult task of seeing the reports of the expedition through the press.

Wilkes is remembered in American history because, as commander of the *San Jacinto* during the Civil War, he removed the Confederate commissioners Mason and Slidell from the British steamer *Trent*, an act which nearly caused Great Britain to enter the War. When he died in 1877, he had achieved the rank of rear admiral.

Sailing of the expedition.—By the time Wilkes took command, the expedition was in great disorder and disrepute. He quickly put affairs in shape and in less than five months was ready to set sail.

The original plans had called for a staff of 25 scientists, but in the end the number of vessels assigned to the expedition was reduced and all of the studies pertaining to the naval profession—hydrography, geography, meteorology, and physics—were turned over to the naval officers of the expedition. The reduced civilian scientific staff consisted of the following men: Horatio Hale, philologist; Charles Pickering and Titian R. Peale, naturalists; Joseph P. Couthouy, conchologist; James D. Dana, mineralogist; William Rich, botanist; William D. Brackenridge, horticulturist and assistant botanist; Alfred T. Agate and Joseph Drayton, draughtsmen. The pay of the scientists was $2,500 a year plus rations; that of the two artists, $2,000.

The squadron sailed from Norfolk, Virginia, on August 18, 1838. The vessels included the sloops-of-war *Vincennes* and *Peacock*, the brig *Porpoise*, the storeship *Relief*, and the two tenders *Sea Gull* and *Flying Fish*. The *Sea Gull* was lost off Cape Horn in the spring of 1839. The *Relief* was such a slow sailer that she was sent home from Callao, Peru, the same summer. The *Peacock* was wrecked on a bar at the mouth of the Columbia River, Oregon, and was replaced by a merchant vessel which had been renamed the *Oregon*. The *Flying Fish* was sold in Singapore as too unseaworthy to make the return voyage. Thus, the only vessels completing the entire trip were the *Vincennes* and the *Porpoise*.

From Norfolk the vessels crossed the Atlantic to Madeira and the Cape Verde Islands, recrossed the Atlantic to Rio de Janeiro, worked around Cape Horn, and arrived in Callao, Peru, in the summer of 1839. During the winter of 1838–1839, while based in Tierra del Fuego, Wilkes had made an excursion into the Antarctic with part of the squadron. On quitting Peru, either the squadron or individual vessels explored the South Pacific Islands, Australia, and New Zealand. Leaving Sydney, Australia, during December of 1840, Wilkes spent the months of January and February following the coastline of Antarctica until he convinced himself that he had found the continent.[1]

From New Zealand the expedition went to the Hawaiian Islands, and then, during 1841, explored the northwest coast of the United States and California. The vessels left California to cruise again in the South Pacific, then proceeded to the Philippine Islands, Singapore, the Cape of Good Hope, and St. Helena.

[1] A recent study by B. P. Lambert and P. G. Law presented at a symposium on Antarctica, held in Buenos Aires, appears to confirm Wilkes' assertions. They found a striking similarity between the shape of the coast as sketched by Wilkes in 1840 and a detailed chart based on their own explorations of the past two years as well as photographs taken by seaplanes from the 1947 expedition of the United States Navy. They suggest that "the whole question of the reliability of Wilkes' observations might well be reviewed" (*The New York Times*, January 10, 1960, vol. 119, p. 1).

Return of the expedition.—The squadron finally arrived in New York in June 1842 after a voyage of three years and ten months and after having sailed 87,780 miles. The same confusion and poor publicity which surrounded the sailing of the expedition continued afterward, until 1872, when the final report was published.

At home, Wilkes did not find the glory or recognition that he had expected. He had left under a Democratic administration and returned to find the Whigs in power. At best, he found official indifference to his accomplishments. Charges and countercharges were made. Wilkes had antagonized so many of his subordinates with his severe and sometimes arbitrary discipline that he was forced to stand court-martial proceedings for tyranny and fraud. Some of his disgruntled subordinates specifically accused him of having falsified his claim that the expedition sighted Antarctica on January 19, 1840. He, in turn, launched countercharges of insubordination against some of the officers. At length the charges against Wilkes were dropped. With this unpleasant background, the task of preparing the results of the expedition for the press was commenced.

Joseph pitty couthouy.—Apparently Gould was interested in accompanying the expedition as there is a note in his handwriting in the Boston Society of Natural History, dated October 1836, listing his qualifications. It is on a copy of a letter of recommendation for Gould by T. W. Harris, distinguished author of "Insecta of Massachusetts Injurious to Vegetation," to Dr. Charles Pickering. Despite such a reference for Gould, however, Joseph Pitty Couthouy had been chosen to go on the voyage. In 1837 Couthouy was 29 years old and Gould, 31. Both were active members of the then flourishing Boston Society of Natural History but, at this time, neither had published very much. It is not known who else was considered for the post of conchologist; in any event, Couthouy's desire to accompany the expedition was so strong that he presented himself in person before President Andrew Jackson to obtain a position on the scientific staff. President Jackson stated that he could not seriously entertain the application since the list of officers was complete. To this, Couthouy, a mariner by profession, replied, "Well, General, I'll be hanged if I don't go, if I have to go before the mast [i.e., as a common sailor]." This pleased "Old Hickory," who told him, "Go back to Boston and I will see if anything can be done for you." There, a few days after his return, he received his commission as Conchologist of the Scientific Corps (Dall, 1888, p. 109).

Before sailing on the expedition, Couthouy presented his shell collection to the Boston Society of Natural History on August 1, 1838 (Society's original catalogue of shells, nos. 3001–3876), with the proviso that it could be reclaimed four years from that date. It is

not known if he exercised this right but, since this author found a number of his types still in the Society's collection, apparently he did not.

Couthouy busied himself in collecting at the various ports of call and "made careful and suggestive notes of all the interesting species, and especially of the new or doubtful species," with the intention of amplifying them on his return. When the expedition left Samoa, his health began to decline. Wilkes demanded that Couthouy turn over all notes and drawings to him, for Wilkes was preparing a narrative of the voyage (later published in five volumes). Couthouy refused, claiming that his subsequent work would be crippled without them. Wilkes thereupon suspended him and ordered him home "for disobedience of orders."

Gould (1852, p. v) says that "the numerous notes he [Couthouy] had subsequently made from day to day were left in an imperfect state. Still these would have been extremely valuable, especially those relating to the land shells of the Society, Samoa, and Sandwich Islands. But, unfortunately, repeated searches have failed to discover them among the masses of documents pertaining to the Expedition." The journal did not turn up until it was presented to the Boston Society of Natural History in 1931 by Mrs. G. Wigglesworth. It would be interesting indeed to know how she came by the volume, which is entitled "Journal on Board the *Vincennes*, January 30 to October 29, 1839," and is illustrated with drawings in the text by Couthouy. In a pocket in the front cover there are 27 drawings, mostly by Drayton, along with some miscellaneous notes.

In the introduction to the journal Couthouy states, "I have concluded to adopt the form of a journal which besides a sort of duplicate of my notes shall contain a brief notice of daily events aboard ship not immediately relating to my own pursuits."

The journal reveals an almost immediate and continued dissatisfaction on his part with the cooperation he received from naval personnel. The officers made private collections of materials and Wilkes' strict discipline often interfered with Couthouy's labors. He writes, "That which I anticipated as a sort of pleasure, must be performed as a task of duty." We will not dwell on the small affronts to personal dignity as well as the lack of cooperation he suffered, as complaints of this sort seem to have been common from those who served under Wilkes.

An interesting anecdote passed on to the present author by an officer of Boston's staid Athenaeum, where Couthouy's bearded portrait adorns a wall, is that, while in Tahiti, Couthouy had himself tatooed from neck to foot. As the old Italian saying observes, "If the story is not true, at least it is well devised." If it is true, it may explain

why his health declined and why his last entry in the Journal is dated October 1839, Pago Pago, Samoa Islands.

The collectors and collections.—Although the officers made private collections, Couthouy was aided in his efforts by the other members of the scientific staff, who also continued to collect shells after he left the expedition.

These scientists often made extensive excursions into the interior of the countries visited when time permitted. In North America, they explored the northwest coastal area, which is now the states of Washington and Oregon; Joseph Drayton, one of the artists, travelled along the Columbia River to the Blue Mountains; a group journeyed overland from Fort Vancouver to San Francisco; and another party went to Fort Nesqually (now Tacoma, Washington), to Fort Colville, and thence to the Kooskooska River (Clearwater River, Idaho). In South America some of the naturalists crossed the Cordilleras of the Andes from the Pacific to the sources of the Amazon River. Dr. Pickering made numerous excursions into Brazil. And in the Polynesian Islands explorations were made by other members of the staff.

Among the most important members of the party who helped Couthouy collect shells were Dr. Charles Pickering, anthropologist, Joseph Drayton, artist, and William D. Brackenridge, botanist. The names of these gentlemen, as well as the name of a Mrs. Mitchell of New South Wales, Australia, are often affixed as collectors of the new species described from the material sent home by the expedition.

Disposition of the shell collection.—The collections were sent to Peale's Museum in Philadelphia as circumstances permitted. Perhaps this was done because one of Peale's sons, Titian R., was a member of the expedition's staff. It would have been a more logical course to have sent the collections to the Academy of Natural Sciences of Philadelphia, which had been flourishing since 1812, rather than to Peale's establishment, which was hardly a natural history museum. In any event, there was no place to send them in Washington until, prior to the expedition's return in 1840, several members of Congress and others interested in a national museum, organized the National Institute, later known as the National Institution. At this time the collections were removed from Peale's in Philadelphia and placed in the custody of the Institution in Washington, where they remained in the Great Hall of the Patent Office until 1856, when they were turned over to the newly founded Smithsonian Institution.

The collections suffered from a series of incredible vicissitudes. Peale says, "I am ashamed to record the fact, that when the boxes and packages were placed in charge of the National Institution, the seals were broken and a general scramble for curiosities took place by

irresponsible members of the Society, in which some 'Honorable' men thoughtlessly took part. Many valuable specimens were lost particularly *shells* and skins of birds" (Haskell, 1942, p. 7).

Soon after his return to the United States in 1840, Couthouy went to Washington to study the shells that had been sent back. In the meantime, the National Institution had hired a clergyman who knew nothing of natural science to unpack the specimens. The worthy gentleman, noting that some of the numbered metal tags in the jars were discoloring the alcohol, carefully removed the tags, and placed them together in a separate jar without replacing them with any other means of identification! With one act he thus rendered it impossible for Couthouy to identify the specimens and match them with his notes. Moreover, some specimens were gone: prominent conchologists had been favored—for a consideration—with many rare specimens before any of the naturalists on the voyage had returned. Couthouy worked over the material as best he could until the expedition came home. At this time the already low salaries of the naturalists were decreased by some 44 percent. With a wife and two children to support, Couthouy quit in disgust. Eventually he became captain of a merchant vessel, and later he searched for treasure on the Spanish Main. He met his death during the Civil War when, as commander of the S. S. *Chillicothe*, he was killed by a rebel sharpshooter while his vessel was engaged against a number of troops on the banks of the Red River in Louisiana.

Gould selected to do the report on mollusks.—With the return of the expedition, President John Tyler assigned Robert Greenhow, translator for the State Department, to draw up the reports and write the journal of the expedition. Fortunately for Wilkes, his friends in Congress blocked the appointment and referred the matter to the Joint Committee on the Library, which drew up the plan that was finally adopted. The Committee appointed Benjamin Tappan, Senator from Ohio, as its agent to supervise the preparation of the reports, with Wilkes, who had been detached from the Navy at the request of the committee, to be in immediate control. Joseph Drayton, the artist, was put in charge of the duties connected with actual publication, including the preparation of the drawings for ichthyology and conchology.

Couthouy's resignation was timely; he must have been aware that, after his controversy with Wilkes, it would be highly doubtful that the latter would consider him for the job of writing the report on the Mollusca. Wilkes, in fact, never seems to have entertained the idea for a moment but urged that Drayton the artist do the report. Drayton was not a conchologist and Senator Tappan would not accept the proposal. Judging from the available correspondence, the Senator

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wanted Dr. Gould, who was well known by this time for his "Invertebrata of Massachusetts," to write the report.

Gould was most anxious to assume the task and wrote to Tappan in September 1843, stating he had heard, from Dr. Pickering, that "Mr. C. [Couthouy] told him [Pickering] that he would rather I should undertake the task than any other person." Gould went on to say that, if he were to undertake the job, he would want the specimens sent to him in Boston. "On account of the books & collections in Boston, I doubt not the proper results will be obtained here with much more facility than in Washington . . . . If I undertake it I shall wish to dispatch the matter as soon as possible that everything may not be done in anticipation abroad." A month later Gould again wrote Tappan:

> I feel that no time is to be lost, inasmuch as every month will take something away from the novelties which we may hope to find in the collections. Every month brings in from abroad descriptions of new shells from the very regions visited by our Squadron; and if much more delay is made, there would be little inducement for any naturalist to undertake the task from the hope that he might contribute something new to the stock of knowledge. . . .
>
> It has been intimated to me that Mr. Wilkes and Mr. Drayton have an idea, that after they have got all the papers arranged and figures engraved, there will be time enough to take up the descriptions. You will readily see the mistake of this view; for it is clearly necessary to determine first what is new or worthy of illustration—and this must require much investigation. I certainly do not wish to attach my name, as conchologist, to a selection either of shells or of figures which they might select for me. Mr. Pickering found that many things which are supposed to be new at Washington, have been long well known in Boston, and described abroad. It would be no credit to your Conchologist to be publishing a book of old stories as something new (Haskell, 1942, p. 73).

This did not soften Wilkes and Gould was not employed.

Gould did not give up easily and wrote Tappan on December 17, 1843: "But the worst of all is that he [Wilkes] does not seem aware of the importance of putting into print as soon as may be descriptions of all objects regarded as new. It is not the date of *discovery* of an object which gives precedence to it among scientific men, but the date of *publication*."

Negotiations with Gould began again in the spring of 1844 and went on until April 25 of 1845, when he began writing the report, although as late as May Wilkes was suggesting that Gould and Drayton work together under the supervision of Pickering. Gould finally won out, securing a salary of $3,200. His last bill for $1,000, rendered in 1852, was not paid until 1861!

At Gould's request the shells were shipped to Boston for identification and, according to his plan, he began publishing brief notices

of the new species in the Proceedings of the Boston Society of Natural History as fast as he could describe them. The scope of the work was limited by the Library Committee's decision that nothing should be printed that was not new. The Committee further stipulated that the entire work should be an American production, unaided by European scholars.

According to P. P. Carpenter (1863, p. 529), "Gould had access only to that part of the collection which happened to be on view during the brief visit that his professional duties allowed when visiting the capital; and that his request to be allowed to take doubtful shells to Europe for identification was refused." Nevertheless, the correspondence quoted by Haskell (1942, p. 75) clearly indicates that Gould had the major portion of the shells in Boston although, on a subsequent visit to Washington, he located an additional 150 species to describe.

Evidently Wilkes' antagonism toward Couthouy continued unabated since he wished that no credit be given to Couthouy in the report. The following excerpt from a letter by Gould to Senator Tappan on October 15, 1845, appears to be an answer to a demand by Wilkes, through Tappan, to eliminate Couthouy's name in the report. With this assumption in mind, the paragraph does not damn Couthouy with faint praise, as it seems to do, but is instead a subtle attempt to give him as full credit as possible without Gould himself incurring the wrath of Wilkes.

> Though we may withhold his name entirely it cannot be concealed that he was actively engaged for at least one year. An entire exclusion of his name would seem vindictive, and will give him good ground so to represent it. Whereas I find the instances in which there would be any occasion to allude to him (among the shells) so very few that it would tell rather discreditably than creditably for him—His Journal is interesting and Captain Wilkes has drawn largely from it [a curious statement, since we are led to believe that Couthouy refused to turn his journal over to Wilkes, and that Gould was unable to locate it]; but his descriptions of new objects are very few, and written in a less precise and concise style than I should like to publish, and the names he has applied will very few of them stand and none of them need bear his name proper. After leaving Cape Horn he evidently attempted very little at descriptions. My own feeling would be that while he may have forfeited all right to the good will of those concerned in the expedition it would not be dishonest and certainly would be magnanimous, to allude to his labors wherever they have been important. If we avail ourselves of facts which we should not otherwise have at hand, should we under the catholic ethics of science which knows no partialities, hesitate to acknowledge them? This you will allow is a charitable view of the subject—and will it not so heap coals of fire on his head and while it does us no harm, may save us much trouble (Haskell, 1942, p. 74).

Haskell does not share my view, but he thinks that Gould must have held one opinion of Couthouy's contribution and then changed it since the Boston Society of Natural History in 1942 possessed a copy (subsequently sold to the Allan Hancock Foundation, Los Angeles, California) of Gould's text of the Exploring Expedition Mollusks which bore the inscription "To Joseph P. Couthouy—this elaboration of the collections and observations, made in so great a part by him, is presented by Augustus A. Gould." As I said above, I believe the letter quoted was a subterfuge and that Gould's praise therein was sincere.

Senator Tappan wrote to Gould in January of 1845 that he wanted the work completed by December of that year. Gould said this was impossible and, though both Wilkes and Drayton were sorely vexed, the text did not appear until December of 1852. The atlas of plates is dated 1856, but it was not actually finished and distributed until 1860—and Tappan wanted it done by December 1845! The other volumes of the series were just as slow in appearing as was Gould's volume.

The government printed only 100 copies of the text and the same number of the atlas. Of the text, 21 copies were destroyed by fire and not replaced. Fifty-eight copies of the text and plates were sent to the State Department from the printer in Philadelphia on December 15, 1852, and again the same amount on December 15, 1860. The distribution of the copies sent to the Department of State was determined by Congress: one copy to each of the United States; two each to Great Britain, France, and Russia; one each to 25 other countries; two to the Library of Congress; one each to Wilkes, Hudson, and Ringgold, commanders of the major expedition vessels; one to the Naval Lyceum at Brooklyn, New York. The remaining volumes were to be kept for distribution to each new state as it entered the union and, later, other foreign countries were included.

Each author was permitted to have printed some copies for his own distribution. The number ranged from 100 to 150 copies. According to a letter from Drayton, "Gould has determined to print one hundred copies on government paper." The distinguishing points between the two editions are minor. The official edition carries no publisher's imprint, merely that of the printer C. Sherman. The unofficial issue of the text reads: Boston–Gould & Lincoln. The official edition has a half-title with the phrase "By authority of Congress." This is lacking in the unofficial edition. The atlas has, in addition, a few other minor differences which are discussed in the bibliography of Gould's works in this paper.

Congress expressly desired that these reports rival those being published at the same time from the French expedition on the *Astro-*

labe. In regard to the molluscan section only, the report almost does this, but the quality of the French color engravings of the period seldom has been equaled.

As mentioned earlier, the collection of mollusks was under the care of the National Institution, where it suffered the vicissitudes already described. If the entire collection was not borrowed by Dr. Gould, it seems certain at least that he had the new species in Boston. When they were returned, as also stated earlier, they were turned over to the newly founded Smithsonian Institution. There is a letter, however, in the Boston Society of Natural History (now the Museum of Science) from P. P. Carpenter to Gould, dated October 23, 1859, which says, "Would you return the Exploring Expedition Shells now in your possession?" According to Carpenter (1863, p. 530), "The shells remained unopened in 1859–1860 and the types not accessible, till at the request of Prof. Henry, I undertook the arrangement of the collections. Fortunately, a considerable part of the shells professing to be new species were found together, with the artist's marks corresponding with the plates and figures."

The Smithsonian Institution was supposed to receive all collections made by the government, with the right to exchange duplicates. Many paratypes of the Exploring Expedition shells were then distributed along with ordinary duplicates. The paratypes were accompanied with printed labels bearing the inscription "Named from the Type Specimen." The Museum of Comparative Zoology in Cambridge has many such lots. The New York State Museum received a distribution of 273 duplicate lots from the Smithsonian Institution in 1862 (15th Ann. Rep. New York State Mus., pp. 23–25), some of them paratypes. This is probably the typical collection sent out. In the so-called "Gould Type Collection" from the New York State Museum, now on permanent loan at the Museum of Comparative Zoology, there are some of these printed labels; the remaining Exploring Expedition types must have been retained by Gould at the time of original description.

Summary of the types.—In his final report on the Expedition shells, Gould described some 443 species. Of this number, I have located 308 in the United States National Museum and, through Carpenter's previous labor, it has often been possible to ascertain the figured holotype. In other instances, syntypes have been found. Since all the species had been well figured, in most instances I have neither selected lectotypes nor refigured them. Types of 27 additional species have been located in the "Gould Type Collection" or in the Museum of Comparative Zoology collection. Of the 110 species that have not been found, 57 were naked mollusks, some of which had not

been preserved at all after the original drawings had been made; the rest probably long since have dried out and have been discarded. This leaves 53 species, some of which may still be found.

Gould: Middle Years

Relations with Louis Agassiz.—Louis Agassiz came to the United States in 1846 and immediately became a close friend of Dr. Gould, whom he had known previously through correspondence. Agassiz had been much impressed with the "Invertebrata of Massachusetts." In 1848, Agassiz accepted a professorship at newly founded Lawrence Scientific School at Harvard College, where he remained for life, leaving as a monument to his work the Museum of Comparative Zoology, which was founded in 1859. During his first year as a professor, Agassiz and Gould published "Principles of Zoology" in Boston at the firm of Gould's brother: Gould, Kendall and Lincoln. The slim volume went through an English edition, and in Germany it was translated and printed in 1851 and revised in 1852, an edition which enjoyed three more printings, the last in 1872.

"Terrestrial Mollusca of the United States."—Amos Binney, one of the founders of the Boston Society of Natural History, was a man of wealth and taste who made the Society and the Boston Athenaeum the objects of his special interest. He was the one who made it possible for the Society to begin the publication of its records. Once, he offered to the Society about 2,000 species of shells from his own rich collection, provided that other members matched his donation with species not in his collection. Those conditions were soon met, with the result that some 4,000 species were added to the Society's collection. Binney's large and important library was open to all and was deposited with the Society at the time of his death, March 1847, in Rome, where he had gone for his health. He left unfinished a monumental work, "The Terrestrial Air-Breathing Mollusks of the United States," accompanied with instructions that his executors appoint someone to complete the task. This was admirably accomplished by Dr. Gould. No expense was spared. The anatomical drawings were prepared by the renowned Dr. Joseph Leidy of Philadelphia, and most of the plates were engraved by Alexander Lawson, rated among the best craftsmen of his time. The result, in 1851 and 1857, was one of the most artistic monographs on American Mollusca ever printed in the United States, rivaled only by another project of Lawson's, a work on fresh-water mollusks.

Mexican war naturalists.—During the War with Mexico several collections of shells were made on the West Coast of the United States and Mexico by officers of the United States armed forces.

Colonel E. Jewett, who travelled to Panama as a private collector in January 1849, spent ten weeks in that region, visiting the island of Taboga. From there he went to San Francisco, where he spent four months exploring the shore for about 50 miles around the head of the bay. Then he spent a week at Monterey and finally went to Santa Barbara, where he collected along the coast as far south as San Buenaventura [Ventura]. He gathered about 225 species, which were sent to Dr. Gould for determination. A number of them proved to be new and were described by Gould in the Boston Journal of Natural History. Some of them were figured. Many of these shells have been found in the "Gould Type Collection."

According to P. P. Carpenter (1864, p. 535), Jewett was a very accurate collector and an unsurpassed field paleontologist. Carpenter mentions that by 1864 the collection was in the possession of Jewett's daughter, Mrs. Boyce of Utica, New York. In 1866 Carpenter (p. 278) says that the Recent mollusks "have become the property of a college in New York State." The college did not survive and the shells were dispersed. K. Van Winkle Palmer (1958, p. 18) says that "most of the shells are now in the United States National Museum, Peter Redpath Museum at McGill University, Montreal, Cornell University, or are lost."

Major William Rich had been on the United States Exploring Expedition and was not a novice as a collector of shells. During the war he was able to make a collection of some 130 species, all with good locality data, which were sent to Gould and, again, some proved to be new to science. Carpenter (1864, p. 540) says that Rich collected specimens in good condition. He visited San Francisco, Monterey, San Diego, and San Pedro in California. In Mexico, he collected at La Paz, San José, and Mazatlan. In 1863 his collection was in his home in Washington, D.C., opposite the British Legation, destined, in Carpenter's words, "for one of the public museums in the neighborhood." Judging from the number of Rich's lots in the U.S. National Museum, it is probable that the collection was presented to that institution.

Lt. Thomas P. Green of the United States Navy had collections which covered about the same area as the two above. It was a credit to Gould's reputation that each of these naturalists chose him to identify their collections and to describe the new species. While many of these shells were located in the "Gould Type Collection" from the New York State Museum, now on permanent loan at the Museum of Comparative Zoology, over 20 of the types have not been found. Gould must have had most of them in 1856 since, according to P. P. Carpenter (1856 [1857] Proc. Zool. Soc. London, p. 198), "Dr. Gould sent over the whole of his collections from the

Pacific Shores of North America." Because most of Gould's species are noted in the resultant work to which his name is attached as joint author and because I did not find any of the types in the Carpenter collection in Montreal, it may be assumed that the species were lost in transit or that they were returned to Gould and thence to the original collectors.

The North Pacific Exploring Expedition

In 1853 the United States sent out a second expedition, known as the North Pacific Exploring Expedition, under the command of Captain Ringgold and later Captain Rodgers. Its purpose was to obtain knowledge of the seas surrounding Japan and the extreme northern regions of the Pacific Ocean. The naturalist chosen to accompany the expedition was William Stimpson, who was already known for his dredging and other work along the Atlantic coast.

WILLIAM STIMPSON.—William was born in the Roxbury district of Boston on February 14, 1832, to Herbert H. Stimpson and Mary Ann Brewster. His father was a prosperous dealer in stoves and ranges at Congress and Water Streets. Young Stimpson was educated in the public schools, and in September 1847, when only 16, he entered the upper class of Boston High School and was graduated the following July. Even before this, we are told, he had become interested in natural history. A copy of Dr. Gould's "Invertebrata of Massachusetts" came to his attention. He went to call on the Doctor to see if he could secure a copy of his own. Dr. Gould gave him an order on the state librarian for a copy and the joy with which William marched out of the State House with the volume was a story he often related in later years. In addition, Gould brought Stimpson to the attention of Agassiz and introduced the youth to the Boston Society of Natural History.

The boy's relatives were anxious that he should go into business; his trips to the seashore and his dredging expeditions were not looked upon with favor. He was sent out with a civil engineer, but his employer reported that he was too fond of collecting land snails to make a good surveyor. He was then allowed to enter the Latin School in 1848. The following summer he succeeded in accompanying a fishing smack to Grand Manan, where he studied the marine animals. Still against strong family opposition, he was permitted to join the workers at Agassiz' laboratory at Harvard in October 1850. On December 4, 1850, he was appointed Curator of Mollusks at the Boston Society of Natural History. He held this post until May 18, 1853, when at the age of 21, he was appointed naturalist to the North Pacific Exploring Expedition.

The expedition left Lynnhaven Bay, New Jersey, on June 11, 1853. The vessels included the *John Hancock, Fenimore Cooper, Porpoise, Kennedy, Susquehanna,* and *Vincennes.* The *Porpoise* and the *Vincennes* had been on the earlier United States Exploring Expedition, the latter vessel having been Wilkes' flagship. Now under the command of Captain Ringgold, the ship was boarded by William Stimpson as official zoologist. I will let Stimpson tell his own story of the expedition by presenting excerpts from his unpublished journal, beginning with the first port visited after leaving the United States.

STIMPSON'S JOURNAL.—

July 8, 1853. On Friday at 11 o'clock made the N.W. point of Madeira.

July 9. [Anchored in Funchal.] Dredged the harbor, chiefly in fourteen to twenty fathoms, sandy bottom, and got shells of the genera: *Venus, Cytherea, Cardium, Tellina, Pectin, Thracia, Mactra, Pleurotoma, Mangelia, Ringicula,* etc.

July 15. This day I took a ride about the country [in vicinity of Funchal] to hunt for land shells. On account of the dryness of the season, but few were obtained.

July 19. At five in the afternoon the *Vincennes* passed Palma one of the Canary Islands.

July 28. At twelve o'clock we made land which proved to be the island of Maio. We afterwards made St. Jago Island [São Tiago, Cape Verde Islands] and at sunset anchored in the harbor of Porto Praya [Praia].

July 29. Dredged in different parts of the harbor until eight o'clock. The bottom near the town was sand, depth ten, sometimes only five fathoms, yielding *Nucula* and other bivalves, and a few univalves. While dredging the frigate *Constitution* appeared and lay to nearby while holding communications with the *Vincennes.*

August 6. N. Lat. 8°18′; W. Long. 17°9′. [At sea.] We spoke today to the ship *Arab,* thirty days out from Boston and got copies and files of the "Boston Journal."

September 12. S. Lat. 34°37′; E. Long. 18°14′. [Arrival at Cape of Good Hope.] We approached the land, but slowly, giving me an opportunity of using my tow net to advantage. We entered False Bay with an increasing breeze.

September 12 to November 9, 1853. Cape of Good Hope.

Simon's Town, a British naval station, is a little place of about four hundred inhabitants which is spread along the shores of a slight indentation of the coast on the West Side of False Bay, about six miles from its head which is called Simon's Bay. The shores of this little bay consist of dune sands with here and there a rocky ledge projecting above it at low water, with scattered

boulders and fragments lying about and above them. The bay bottom is sandy with a depth of about six to twelve fathoms, deepening as the larger bay [False Bay] is approached, in which there is a depth of from twenty to forty fathoms, with a coarse sandy or gravelly bottom containing ledges of rock.

[About three weeks were spent collecting in this area; Stimpson made a three-day trip to Capetown before the squadron was put under sailing orders on November 5.]

December 23. S. Lat. 35°55′; E. Long. 151°10′. At noon the coast of New Holland, or Australia, was in sight to the westward. It had the appearance of low land, forming a succession of clumps along the horizon, with considerable uniformity of height.

December 25. S. Lat. 33°50′; E. Long. 151°52′. Sunday.—Today is Christmas, but we are disappointed in our hopes of eating our Christmas dinner ashore. The entrance of Port Jackson, with the lighthouse was, however, visible in the afternoon, when it unfortunately fell calm, preventing us from reaching the shore this day.

December 26. At daylight we commenced beating in to the mouth of the harbor, which we entered at eight o'clock and at nine we anchored below Garden Island, and about 2½ miles from the town of Sydney. The harbor was one of the most beautiful I have ever seen, the verdure descending to the water's edge. It is so land locked and its waters are so smooth, that it presents rather the appearance of a pond of fresh water than an inlet of the sea. The depth of the water is everywhere nearly the same (from nine to twelve fathoms) there being only one shoal in the harbor (the Sow and Pigs, near the entrance) so that for the purpose of commerce it is one of the finest in the world. In the afternoon I took a boat and examined the shores. The rocks of the first and second sub-regions were inhabited by several species of crabs and a great variety of littoral mollusks of the genera *Trochus, Mododonta, Nerita, Purpura, Littorina, Siphonaria* and *Patella,* there being in all about eight species of these genera, all very common, and all of about equal size (the *Littorina* excepted), three-fourths of an inch in diameter.

December 27. This day was spent in the city of Sydney, which I found to be a large place of 60,000 inhabitants, and having fine buildings, the private residences even being built of sandstone. I visited the shop of Mr. Wilcox, natural history dealer, whom I found to be a man of information, and I spent several hours very agreeably in examining the curious forms of mammalia and birds peculiar to Australia, of which Mr. W. had a very full collection.

December 28. Today I went on a dredging excursion to the mouth of the harbor, with Mr. Wilcox, in my little sheet-iron boat the "Pollywog." We visited the celebrated *Trigonia* locality near the "Sow and Pigs," and dredged, besides many living Trigoniae, some thirty or forty more species of shells.

December 29. I spent this day in the city, examining Wilcox's collection. That gentleman gave me some curious accounts of some naturalists whom I had long known by reputation, and did not dream of finding *in propria persona* in this part of the world. He informed me that Macleay, the originator of the "circular theory" of classification in natural history was now residing at this place, and that Swainson who carried out that theory so fully in zoology was now wandering in these parts, poor and neglected, though still hopelessly moping over zoological subjects, though old and past active and useful labor in the field of science. As I listened to Wilcox's account the conceit entered my mind that these two men were banished, as it were, from the scientific world of the Atlantic shores, for the great crime of burdening zoology with the false though much labored theory which has thrown so much confusion into the subject of its classification and philosophical study. In the afternoon I visited the officers of a new French clipper ship now lying in this port, by whom I was treated with the extreme politeness so characteristic of Frenchmen, which contrasts so strongly with the selfish and often contemptuous silence of Englishmen when meeting gentlemen having no formal introduction, and with the awkwardness of Americans in a similar situation. This night I spent ashore at the Royal Hotel, where I met two or three gentlemen from Boston, one of whom had resided in Cambridge, close to my father's residence.

December 31. This morning I visited the Sydney Museum (of Science) where I found a very scientific man, Mr. Wall, Curator of the Natural History Department. He showed me many interesting shells, and many unique cetacean skeletons.

January 1, 1854. . . . formed a party to visit the monument of La Perouse at Botany Bay. After a ride of about seven miles through sandy country, and passing through a grove, we arrived at the Sir Joseph Banks Hotel (named after the great naturalist who accompanied Cook on his first voyage and who landed here). After a good dinner, of which Boston ice was no unwelcome concomitant, we took a boat and proceeded down the bay . . . .

January 5. Through the kindness of our Commander in offering me the use of his boat, I visited the [British Surveying Ship] *Herald*. Her naturalist, Mr. MacGillivray, was not on board.

January 6. Today officers of the *Herald* and afterward Mr. MacGillivray, visited our ship. I find the lower marine animals of these seas have been little investigated, with the exception of Huxley's examinations of the Hydroid Polypi, and Mr. MacGillivray advises me to publish many species which I have found in this harbor, as nothing has yet been done in this field.

January 7. We are now under sailing orders, and remain on board, waiting for a fair wind.

January 8. At sunrise we got underway and proceeded down the harbor, but the wind failing, we anchored outside of the "Sow and Pigs." At noon, however, a stiff southerly breeze sprung up, and we got underway again at one o'clock and stood out of the harbor and on our course to the eastward at the rate of six knots per hour.

January 14. S. Lat. 26°41′; E. Long. 159°37′. Coral Sea.

January 20. S. Lat. 20°07′; E. Long. 160°37′. Coral Sea. Passed a shoal, dredged and found twelve species of bivalves and one hundred and five of univalves.

January 30. S. Lat. 13°40′; E. Long. 162°24′.

February 3. Western Pacific. Sighted the Island of Oury and Vanikoro [Santa Cruz Islands] where La Perouse was shipwrecked.

February 24. N. Lat. 6°47′; E. Long. 158°30′. Close to the Southside of Bornabi [sic]. Not permitted to land.

March 1. Same thing at Guam. Then left for Hong Kong.

March 14. Formosa was sighted.

March 18. Spent the day in Macao.

March 25. Hong Kong.

March 28. Sick with Influenza. *Susquehanna* brings news that Commodore Perry was on the point of making a treaty with the Japanese opening their ports to our commerce.

April 4. Today I tried the trawl for the first time on a muddy bottom in the bay west of the Kowloon Peninsula [opposite Hong Kong, China]; its success was very satisfactory. *Porpoise* arrived having gone from the Cape of Good Hope around Van Diemen's Land [Tasmania] via New Ireland, [Bismarck Archipelago] and the Buskee Passage.

April 12. Dredged in the channel of Hong Kong Harbor, on a shelly bottom in from six to ten fathoms.

May 24. Arrival of Propeller *Hancock*. Captain Rodgers had been four months surveying in the passages between Borneo and Sumatra, and had done a great deal of work as might have been expected from the well-known energy and efficient character of Captain Rodgers. They had collected many shells. [*Kennedy* the store ship had also arrived in Hong Kong at this time.]

May 30. Interviewed a Mr. Squires, who had been engaged in Batavia by Captain Rodgers, he had made a collection of marine animals from the Gaspar Straits.

June 10. Our ship the *Vincennes* is about to proceed to Canton as the European residents there, among whom are numerous Americans, are said to be in danger of an attack from the insurgents, who are making demonstrations against the city.

June 11. Canton. During three days we lay at our anchorage in Whamoa Reach. Then Commodore Perry arrived on the U.S. *Mississippi* and we were relieved.

August 7. News came that Commander Ringgold was relieved of his command. [For some time he had been very ill and quite mad.]

August 12 to 31. All of the stores were removed from the *Kennedy* since it had been condemned as an exploring vessel. Some of the stores were brought on board the *Vincennes* and the remainder stored ashore at the Naval Store House.

September. [At this time the following ships were assembled in Hong Kong: ship *Vincennes*, under Captain Rodgers; steamer *John Hancock*, under H. K. Stevens; brig *Porpoise*, Acting Commander William Bridge; schooner *Fenimore Cooper*, Acting Lieutenant Commander C. Gibson. The *Susquehanna* was sent home via Japan.]

September 9. *Hancock* and *Cooper* sailed for surveying cruise up China Coast as far as Korea.

September 12 to 30. China Seas: N. Lat. 21°52′ and E. Long. 114°09′; N. Lat. 22°25′ and E. Long. 123°53′.

October 1. N. Lat. 23°; E. Long. 125°36′.

October 3. Made Ty-pin-san [Taipinsan] one of the Meca-co-sima [Miyako-jima] Group.

October 18. Reached Bonin Islands.

October 19. Port Lloyd. Made a haul of the dredge in ten fathoms. Dredged in a place called "Ten Fathom Hole" and got many minute shells. The collection of shells secured here is smaller than would have been the case had not more important subjects claimed attention, for there was no lack of specimens; large cowries, (*C. mauritiana*) Strombs, and other kinds being abundant. A *Patella* two inches in diameter, and strongly ribbed, which I have seen nowhere else, was frequent on the rocks. The number of species found was one hundred and ten, at least forty of which also occur at Loo Choo [Okinawa] or on the Chinese Coast. The Bonins are a collection of small islands stretching along for about one hundred miles in the direction of the meridian and forming three distinct groups. The center one of which contains the largest (Peal) island, about five miles in diameter, in which the

harbor is called Port Lloyd. They lie in about 27° N. Lat. and 143½° E. Long. They were visited twenty years ago by Beechey and Lutke and last year by Commodore Perry, who went through some form of taking possession and appointing a governor, whose name is Savery. The inhabitants are about thirty in number, mostly runaway whalemen with wives brought from the Sandwich [Hawaiian] Islands. They live by cultivating small patches of sweet potatoes, lemon trees, etc., and furnishing fresh provisions to the whalers which frequently stop here for water and refreshments. They appear, however, to be very idle, and intoxicated most of the time.

November 6. Passed out of Port Lloyd, narrowly escaping being jammed against the South Head.

November 17. Anchored near some sandy coral islands near Napa Harbor. Great Loo Choo [Okinawa] is the largest and most southerly of the chain of islands which extend southward from Japan. It is about sixty miles in length and rather less than twenty in average breadth. The land is moderately elevated. In the southern part is the capital town Shui, a distance of about three miles from Napa, the chief port. Half a mile north of Napa is Tusui. At this place our boats usually landed, and for its convenience a spot was selected here for our shore establishment.

[Dredging was not too successful.] As is usual in tropical and subtropical countries the sandy and muddy bottoms in depths exceeding two fathoms are almost barren of marine animals. Wherever there is coral, the marine fauna seems always to be almost entirely concentrated upon it, and while its groves afford a rich field, but little can be found on the other stations of the locality. In zoology, Loo Choo may be said to be chiefly distinguished for the number and variety of its shells. We obtained nearly four hundred species during the time of our stay. It should be mentioned however, that but few of these were obtained alive, as our chief collecting ground was the beach northward from Tusui.

Here one might have spent many days in active search without exhausting its riches, for after the larger and more beautiful species were collected, there remained a host of minute shells, mostly valuable only to the systematic conchologist, which really seemed interminable in number, for each handful of coral sand would afford a new form. The search of this beach offered an unfailing resource, whenever the other objects of our collecting excursions proved unattainable. The living shells, with a considerable variety of other marine animals were obtained chiefly on

the outer reefs, which run parallel to the shore at a distance of a mile or more.

The chief ground for terrestrial collecting was a range of well cultivated level land lying along the shore north of Tusui, and overhung by a cliff of coral rock . . . much of this land was terraced and portions of it ditched and banked into paddy fields, the water being supplied by two or three springs which gushed out of the base of the cliffs. Here were found several species of Melaniae and other fresh-water shells, one of which will form a new genus resembling *Rissoa*. Land shells of half a dozen species were found on the shrubs and among the piles of stones. Two of these (Helices) are common to Loo Choo and to nearly all the Japanese Islands and China. A small *Trochus*-like *Helix* and a *Truncatella* occurred at the foot of the cliffs.

December 13. Sailed from Loo Choo [Okinawa].

December 18. Made land. The islands of the Chinese coast near Chusan. Did not land, but left the survivors of the wreck of the *W. H. Layward* [who were picked up on Okinawa] with the clipper *Nightingale*.

December 23. Among the rocky islands of the S.E. Japanese coast.

December 28. Rounded the "Peak Horner" a regularly conical mountain of some 2000 feet in height, and commenced beating up Kagoshima Bay. At each tack I threw over the dredge, and got a variety of small shells, chiefly of a curious genus allied to *Margarita*. Spent nine days in the Bay. Were invited to leave by local authorities, but demanded wood and water, since by Perry's treaty United States ships could visit any port when distressed for supplies. Dredging was good in the Bay.

January 9, 1855. Dredged at Tanegasima [Tanega-shima].

January 12. N. Lat. 28°11′; E. Long. 129°35′. Made Kikaia Island [Kikaigashima, Ryukyu Islands]. Did not land until the 18th. My examinations for the short time allowed were confined to the sea shore, the tide being fortunately out.

January 21. N. Lat. 28°11′; E. Long. 129°35′. Kikaia was still in plain sight, while the larger island Ousima [Amami-O-shima, Ryukyu Islands] could be seen with its numerous bays. Having opportunities of landing at several places, I made a considerable collection of Invertebrates. In a brook which entered the sea in one spot I found a *Melania*, a *Planorbis* . . . the two common Loo Chooan species of *Helix* were also found here.

January 24. Left Ousima. Passed Kageruma [Kakeroma] running due south so as to pass to the Eastward of Loo Choo on the way to Hong Kong.

January 27. Passed close to windward of Botel Tobago Kima [Hungtow Island or Hungt'ou Hsii] and in the night hauled to the southward around the south end of Formosa passing betweed Gadd Rock [Kaot'ai Shih or Gaddo Yen] and Vele Rete Rock [Ch'insing Yen] into the China Sea.

January 29. Again in Hong Kong. No news of the *Porpoise*—feared lost. *Hancock* still at Shanghai—being repaired. It had suffered during the winter cruise. The schooner *Fenimore Cooper* had also had a hard time. Lieutenant Hunter has died on board the *Hancock*. Government has confirmed Captain Rodgers in his command, and our Northern cruise is therefore certain.

The *Vincennes* stayed in Hong Kong to be overhauled. For the first half-month I have been busily employed in describing the new species collected on the late cruise. In doing this I am, of course, confined to my room. The ship is undergoing an overhauling, and the sound of the caulking mallets around and over my head is no great help to patient investigation. I succeeded in bearing it however, with considerable sacrifice to health and had the pleasure of handing to the Commodore descriptions of eighty-one new species, which were sent home for publication.

Hancock and *Cooper* arrived during the latter part of the month. They had been engaged in surveys on the Northeast coast of China, chiefly in the Gulf of Pee-chee-lee [Chihli] and about the mouth of the Pei-ho [Pai] River.

March. In this month I recommenced marine researches. I did but little dredging however, but confined my operations chiefly to the shores or the Chinese fishing boats which are often quite zoological *thesauri*. At the end of the month *Hancock* and *Cooper* sailed for Loo Choo via coast of Formosa to seek tidings of the *Porpoise*.

April 6. *Vincennes* left Hong Kong. Commanded by Commodore Rodgers; Wright, Botanist; Stimpson, Zoologist.

April 11. N. Lat. 22°43′; E. Long. 116°20′. Dredged in China Sea, fifteen to twenty fathoms, grey sand.

April 12. N. Lat. 22°35′; E. Long. 116°53′. Having had one of my largest dredge frames rigged with a canvas bag and a net bottom, I tried dredging on a large scale this afternoon from the ship in twenty-seven fathoms, sandy bottom. First two hauls rather successful, a moderate quantity of sand being taken which proved to be rich in annelides and mollusks.

April 13. N. Lat. 22°56′; E. Long. 117°39′. Dredged in twenty-five to thirty fathoms.

April 19. Back at Loo Choo group.

April 23. *Hancock* arrived at Loo Choo. I often wish fate had placed me on board the *Hancock* as she visits all the out of the way places where novelties in natural history may tend to be found, while the *Vincennes* generally drops anchor only in sea ports which have been previously well searched.

April 27. Got underway with *Hancock* and *Cooper*. Coasted along west coast of Loo Choo heading north. Passed between Montgomery Island and Great Loo Choo.

During the next few days the vessels passed to westward of Oukai [Okinoerabu-shima, Ryukyu Islands] rounded the western end of Katowaisima [Kakeroma] and ran into the strait which separated this island from Ousima [Amami-O-shima]. Dredged at the mouth of a small cove.

May 3. *Hancock* arrives. *Cooper* has proceeded up coast of Ousima [Amami-O-shima]. I found several curious species of land shells.

May 6. Resumed trip.

May 7. Passed Tukara [Ko Takara Shima] and Sabine Island.

May 11. N. Lat. 34°22′; E. Long. 138°06′. Made land, Coast of Nippon [Japan].

May 13. Resolved to run for our port of Simoda [Shimoda] as it had been surveyed. Remained a fortnight. There were no good beaches or rich sea bottom.

May 28. Left.

June 7. Beat up bay of Island of Jesso [Yezo=Hokkaido] and reached Hakodadi [Hakodate]. In the middle of Hakodadi Bay there is an extensive area of shelly and gravelly bottom in from eight to fourteen fathoms.

June 26. Left Hakodadi.

July 7. N. Lat. 50°39′; E. Long. 159°32′.

July 8. Saw the mountains of the Kamtschtkan [Kamchatka] coast.

July 9. Passed through the narrow entrance to the broad bay of Awatska [Avacha Bay]. Anchored off the mouth of the small harbor of Petropaulski [Petropavlovsk-Kamchatski] and were immediately visited by two Americans, Chace and Duval. The town is deserted by the Russians and has been, ever since the removal of the English and French fleets last year. *Cooper* had arrived on the eighth.

July 13. Departed.

August 4. Reached Seniavine Straits [Ostrov Senyavina] and anchored in Glassenappe [Glazenap] Harbor. I commenced dredging operations almost immediately and this business occupied me for the first week of our stay. The bottom of the Straits was mostly muddy, with a depth of from ten to thirty fathoms, but a narrow strip of rocky or gravelly bottom in three

to six fathoms extended along the shore in the immediate vicinity of our encampment. The requisite variety of station was thus easily accessible and I made the requisite collections in a short time without going more than two or three miles from camp in any dredging excursion.

September 13. Camp broke up, and return trip begun.

September 18. Passed west of St. Lawrence Island.

September 23. Aleutian Islands: Passed between Amoutcha [Amukta] and Seguam Islands.

October 13. Made California Coast north of Bodega.

November 13. Arrived in San Francisco to find *Cooper* and *Hancock*. From here the expedition was ordered home.

July 11, 1856. Arrived in New York.

GOULD SELECTED TO DO THE REPORT ON MOLLUSKS.—With the return of the expedition, Stimpson went to Washington to work on the collections. His researches on the expedition material were devoted to the invertebrates other than mollusks. According to P. P. Carpenter (1864, p. 582), regarding the shells, "through some unaccountable cause certain of the most valuable boxes were 'lost' between New York and Washington; the remainder were placed in the hands of Dr. Gould for description, with the MS. catalogue, a copy of which forms the Mollusca vol. 1, nos. 1–2003 of the Smithsonian Institution."

Although the expedition returned in 1855, it was not until 1859 that Gould published the first description of any of the new shells. It is known that he took some of the uncertain shells to London in 1857 to compare them with the H. Cuming collection. There is a group photograph in the British Museum (Natural History) of Gould with Hugh Cuming and Wesley Newcomb (the latter was Gould's travelling companion). It was Gould's intention to produce a report on this expedition similar to the one he did on the United States Exploring Expedition.

In the meantime, Stimpson had received many honors and had been made Director of the Chicago Academy of Sciences. Shortly after his appointment, the structure housing the Academy burned to the ground. The building and contents had been adequately insured, which made it possible for the Academy to purchase new land and put up a fire-proof building. Here Stimpson assembled the manuscripts, collections, and engravings of a lifetime. Books and specimens which he did not possess were freely lent to him by the Smithsonian and by eastern naturalists.

At Dr. Gould's death, W. G. Binney was appointed his conchological executor and, at the request of Stimpson, the complete manuscript of the report, along with certain notes, were sent to Chicago. So far as

can be determined, only the manuscript and not the molluscan types were sent.

On the 8th of October, 1871, a small fire broke out in South Chicago and quickly flared out of control. In 48 hours, most of the city was in ashes and the "fireproof" building of the Chicago Academy, a total loss. The blow apparently was too much for Stimpson. His health declined rapidly and he died the following year, only forty years old.

No journal of the North Pacific Expedition ever appeared. In the files of the National Museum in Washington is a letter from Herbert B. Stimpson, dated January 1930, which states: "I am preparing his letters and diary written during the North Pacific Exploring Expedition, 1853–1855, for publication. Fortunately these documents were at Father's house in Cambridge [Massachusetts] and were not destroyed by the Chicago fire. They were the only documents saved." Nothing has come of this project and contact with the Stimpson relatives has since been lost.

Summary of the types.—We are left, then, with only Gould's preliminary descriptions of some 375 species presumed to be new; of this number I have been able to locate 223 in the U.S. National Museum. In this institution are two original catalogs, one of which probably was written by Stimpson from April 13 to May 4, 1860. Thirty-six additional species other than those found are enumerated in one or both of these catalogs, and most of the 36 appear to have been missing before the whole collection was recataloged at a later time. While some of these may have been lost, others appear to have been borrowed by P. P. Carpenter and never returned since several types have been found in the Redpath Museum with the original U.S. National Museum numbers written on slips in the vials.

It is impossible to ascertain why many of the types from this expedition were burdened with two USNM numbers; however, in those lots which contained more than one specimen, the holotype or lectotype was assigned the original number; the paratypes, the subsequent one. Some holotypes still have the double number but, since some of these have already appeared in print, it has been thought best to leave them as they are. Twenty-three species not found in the U.S. National Museum have been discovered in the so-called "Gould Type Collection" now on permanent loan at the Museum of Comparative Zoology in Boston or in the general MCZ collection. There are some 87 species of which I have found no trace. It is possible that a few of these may be in the British Museum (Natural History) since Gould left examples of some of the new species with H. Cuming. In all probability, however, the number of missing types will not be greatly reduced. Almost all of the types of new species collected by the North Pacific Exploring Expedition not previously illustrated are figured in

this paper. All of the species figured by Yen (1944) have been refigured, many from new photographs.

If the type lot contained only one specimen and if the measurements approximated those given in the original description, that example has been regarded as the holotype. When there were several syntypes and it was not clear which one was the measured specimen, a lectotype was chosen. In all cases, the actual measurements of the figured type are given on the plate captions.

Gould: Later Years

Republication of the "invertebrata of massachusetts."—The description of the mollusks of the North Pacific Exploring Expedition was Dr. Gould's last important work on new material. During his latter years, he was engaged in revising his "Invertebrata of Massachusetts" at the request of the state legislature, which had appropriated $4,000 for the task. At the time of Dr. Gould's death in 1866, the work remained incomplete. Happily, William G. Binney, the son of Amos Binney, was appointed to finish the task. Since Gould had completed the work of Binney's father on the terrestrial mollusks of the United States, it was fitting that these two names should again be joined in authorship.

Twelve hundred copies of the new edition of the "Invertebrata of Massachusetts" were published, one for each member of the legislature and one for each public library in the state. Fifty remaining copies were distributed through the trustees of the State Library.

Death of gould.—As previously mentioned, Gould was first of all a physician. He was active in the medical societies of Boston and Massachusetts and he served as an officer of more than one of these groups. For several years he was a consulting physician at the Massachusetts General Hospital. According to his daughter's account, Gould encouraged and advised Dr. W. T. G. Morton, the reputed discoverer of ether, suggesting for the first apparatus the use of a valve that helped to produce complete insensibility. Gould was in attendance when Dr. John Collins Warren performed the first operation with the new anesthetic.

It is reported from old accounts that Gould was genial and drew friends around him, retaining the old and attracting the new. He did not possess the emotions of an enthusiast but rather was of a calm, contemplative nature, with clear preception and awareness of his surroundings. He was a religious man and for more than 30 years a constant member of the Baptist church, practicing religion rather than talking about it. According to W. H. Dall, Dr. Gould "was tall

and spare, with dark hair and dark grey eyes, his countenance full of character and benevolence. When greeting others in whom he was interested, especially young students, his face had a winning expression not to be forgotten" (Dall, 1905, p. 104). It is not surprising that Dall remembered the good Doctor thus, for in 1863, when Dall was 18 years old, he had gone to call on Dr. Gould, as had William Stimpson some years before. He too received every encouragement and Dr. Gould presented his name to the Boston Society of Natural History, where he was admitted as a student member and excused from fees.

On the afternoon of September 14, 1866, Dr. Gould suffered an attack of Asiatic cholera and the following morning before dawn, he was dead. He was buried in Mount Auburn Cemetery in Cambridge, Massachusetts, not far from his friend Amos Binney.

The following excerpt from a letter of Julia N. Gould to W. H. Dall, dated March 22, 1918, is a fitting summary of Dr. Gould's life:

> Among my father's writings not for the public eye—I find the following: "I have risen by industry and self-denial from the rude mountain farmer boy to a notable standing in an honorable profession in a large city, and from association with rustics have come to be an associate with the most scientific men of the day both home and abroad."

Disposition of the Gould Shell Collection

At Dr. Gould's death, his collection of "sixty thousand specimens" was not placed, as had been expected, in the Boston Society of Natural History, where Gould had labored so long and with such zeal. Instead, it was sold for $6,000 in 1867 to the New York State Museum in Albany, New York. The supposed types of 362 species were separated as "The Gould Type Collection," placed in glass-topped boxes, and deposited in the director's office. A list of this collection was published in the Twenty-seventh Annual Report of the New York State Museum (1875, pp. 47–55).

In this portion of the collection the present author has been able to locate a number of Dr. Gould's figured or measured holotypes. Some of the lots proved not to be types and a few were syntypes of John Gundlach's Cuban shells, but the majority were as represented. Through the kindness of Dr. W. N. Fenton, Director of the New York State Museum, this portion of the collection was placed on permanent loan in 1959 with the Museum of Comparative Zoology, Cambridge, Massachusetts. The remainder of the Gould collection of some 10,000 lots, as well as the rest of the New York State Museum col-

lection of Recent mollusks, had been placed also on permanent loan with the U.S. National Museum, Washington, D.C., several years earlier.

In a letter dated January 28, 1959, Dr. Fenton granted permission for these two institutions to divide the collection as they saw fit. Accordingly, whenever a lot from the "Type Collection" in the Cambridge museum contained more than one specimen, a paratype was sent to the museum in Washington. All catalog numbers of these paratype lots are included in the present paper. Possibly even more of Gould's types will be found in the main collection; in any event, it should prove to contain types from Gould's contemporaries. At the present time the collection is not available for study.

Summary of Gould's Types of Mollusca

Gould early recognized the importance of types. In 1848, in the Proceedings of the Boston Society of Natural History (vol. 3, p. 5) there is the following note: "Dr. Gould made some remarks upon the importance of depositing in public cabinets, whenever they could be procured, the identical specimens from which the species had been described, and also of authentic specimens labelled by describers themselves, and so designating them that the fact should appear."

In all, Gould described 1088 species of Mollusca, including 23 genera and subgenera. There were 433 species described from the United States Exploring Expedition, of which I have been able to locate types of all but 110. From the North Pacific Exploring Expedition, 374 new species were described; of these, 125 have not been found. Some 271 species were described from Massachusetts, California, Liberia, and other places; of this group, 102 have not been located.

Thus, out of 1088 species described, type material of all but some 340 has been found. Of these missing species, 77 were naked mollusks and have long since been lost, if they were preserved at all. It is possible that a few of the remaining 263 species that are missing will still be found. In spite of the lapse of over 100 years, it has been rather surprising, in view of Dr. Gould's philosophy, not to have found the various types better marked.

Collections Studied for This Work

The collection of the U.S. National Museum has been carefully studied by the present author for the types of the United States Exploring Expedition and the North Pacific Exploring Expedition, as well as for Jewett, Rich, and miscellaneous types.

The Museum of Comparative Zoology, which contains the Massachusetts State Cabinet and the collection of the Boston Society of Natural History, which itself contains important contemporary collections, including material from Couthouy and Stimpson, has been carefully checked. The Peter Redpath Museum in Montreal, which contains the P. P. Carpenter collection, also has been reviewed. Finally, the American Museum of Natural History in New York City, and the Newcomb collection at Cornell University have been drawn upon.

There are probably types of some of the species in the Academy of Natural Sciences of Philadelphia and the British Museum (Natural History), but it is doubtful if these collections will contain types of species not already located.

The Species of Recent Mollusca Described by Augustus Addison Gould

With Their Original References and Type Localities, Including the Location of the Types When Known

This catalog is arranged alphabetically by species and includes the original genus, the year and place of description (when required the month can often be determined by checking the bibliography of Gould in this paper), the type locality and collector (in parentheses), and the original measurements. Reference is made also to the first figure of a type if not originally figured. Further, the kind of type found is stated—holotype, paratype, syntype, lectotype, ideotype, metatype—with its museum number.

The terms ideotype [idiotype] and metatype are unfamiliar enough to require some explanation. An ideotype is any specimen identified by the original author as his own. A metatype is any specimen identified by the original author as his own from the type locality. In general, these categories have been employed only when no primary types were found.

Some of Gould's measurements were given in the original descriptions as "poll." (pollex=thumb). This is equal to one inch or 25.4 mm. All the measurements given in this list appear as they did originally, some in poll., or inches (e.g., long. 2½, lat. 1, alt. 1⅘ in.), and some in millimeters (e.g., long. 20, alt. 17, lat. 12 mm.). In the plate legends, however, all measurements are in millimeters (mm.) and refer to the specimen figured here, whether holotype or lectotype. Measurements of gastropods represent the maximum height and maximum width. Gould used a number of terms in his measurements: height or axis; diameter or width; long., alt., lat.—or length, height, width. On the place legends height and width are used for the gastropods; length, height, and width, for the pelecypods.

I have not attempted to locate every paratype and syntype though I have included in this list most of those found in the United States National Museum and the Museum of Comparative Zoology. Once the holotype was located, the search for paratypes seemed less urgent.

All locality data in brackets contained in the present report are additions to already published records. This bracketed material has been obtained from original labels or "The Columbia Lippincott Gazeteer of the World" (1952), the "Encyclopædia Britannica

World Atlas" (1944), and the "National Geographic Atlas of the World" (1963) as an attempt to bring the locality data up to date. Parentheses enclose the locality data and also indicate original subgenera, which are exactly as originally published. In addition to the above use, brackets also indicate Gould's subsequent generic concepts, mostly as modified in his "Otia Conchologia." Except as otherwise indicated, Gould is the sole author of all names. The few names accompanied by Gould's name in quotes, with no author following, are nomina nuda from anonymous papers. In the citations from the atlas of the shells of the United States Exploring Expedition, a comma between a figure and its letter indicates, for example, that fig. 152, a-b, consists of figs. 152, 152a, 152b. No comma (fig. 152a) indicates that the reference is to a specific figure.

The following abbreviations are used:

BJNH—Boston Journal of Natural History
BSNH—Boston Society of Natural History
MCZ—Museum of Comparative Zoology, Cambridge, Massachusetts
NPEE—North Pacific Exploring Expedition
NYSM—New York State Museum, Albany, New York
PBSNH—Proceedings of the Boston Society of Natural History
Redpath Mus.—Redpath Museum, McGill University, Montreal, Canada
USEE—United States Exploring Expedition
USNM—United States National Museum, Washington, D.C.

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abbreviata, Mysia **Plate 26, fig. 5**

1861, PBSNH, vol. 8, p. 32 (Hong Kong Harbor [China], W. Stimpson), long. 20, alt. 17, lat. 12 mm.; 1862, Otia Conch., p. 171. Half measured holotype USNM 541. NPEE.

abbreviatus, Solecurtus: 1861, PBSNH, vol. 8, p. 26 (Hong Kong Harbor [China], W. Stimpson), long. 45, lat. 10, alt. 20 mm.; 1862, Otia Conch., p. 164. NPEE.

abjecta, Helix: 1848, PBSNH, vol. 3, p. 40 (southwestern states, J. Bartlett), diam. ¾, axis ⅞ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 122, pl. 13a, fig. 2 (Arkansas: in the region of Washita Springs); 1862, Otia Conch., p. 204. Syntype MCZ 72831 *ex* J. G. Anthony from A. A. Gould.

Not Lowe 1831, changed by Gould to *Helix divesta, in* A. Binney, 1851, Terr. Moll. U.S., vol. 2, p. 358. Gould further states that his *H. dejecta* [nomen nudum] not Petit 1842 is the same species.

abnormis, Hyala **Plate 5, fig. 2**

1861, PBSNH, vol. 7, p. 408 (China Sea: coral regions), long. 1.7, lat. 6 mm.; 1862, Otia Conch., p. 152. Holotype USNM 392, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 568, pl. 50, figs. 34, 35. NPEE.

achates, Chiton (Acanthochaetes): 1859, PBSNH, vol. 7, p. 165 (Kikaia [Kikaigashima, Ryukyu Islands]; Hakodadi [Hakodate] Bay [Japan], W. Stimpson), long. 30, lat. 20 mm.; 1862, Otia Conch , p. 118. 3 Syntypes MCZ 169031 *ex* NYSM 168, original no. A 3165. NPEE.

Pilsbry, 1893, Manual of Conchology, ser. 1, vol. 15, p. 18, says, "One of the original specimens of this species is before me, but it is so erroded that the characters are quite obscured."

achates, Chlorostoma **Plate 10, fig. 4**

1861, PBSNH, vol. 8, p. 20 (Simoda [Shimoda, Japan], W. Stimpson), diam. 1.75, axis 1.50 in.; 1862, Otia Conch., p. 158. Lectotype, here selected, MCZ 169032 *ex* NYSM 132, original no. G 2416; paratype MCZ 88088 *ex* BSNH 4037 from W. Stimpson; 4 specimens Redpath Mus. 52, labeled "Type" but from Hakodadi and Ousima. NPEE.

achates, Odostomia: 1853, BJNH, vol. 6, p. 385, pl. 14, fig. 13 (Mazatlan [Mexico], E. Jewett), length ½, breadth $\frac{3}{10}$ in.; 1862, Otia Conch., p. 186. Holotype MCZ 169030 *ex* NYSM 43, original nos. 288 and A 3111, refigured by Dall and Bartsch, 1909, USNM Bull. 68, p. 28, pl. 1, fig. 10.

acicula, Stilifer: 1849, PBNSH, vol. 3, p. 84 (Feejee [Fiji] Islands, in Holothuria, Drayton), long. ⅜, lat. $\frac{1}{10}$ in.; 1852, USEE, vol. 12, p. 207, pl. 14, fig. 246,a–b; 1862, Otia Conch., pp. 54, 245. Figured holotype USNM 5645; 10 paratypes MCZ 169033 *ex* NYSM 48, original no. A 3503; 3 paratypes MCZ 155928 *ex* Smithsonian Inst. (printed label); 8 paratypes MCZ 135684 *ex* BSNH 2564.

aciculum, Dentalium: 1859, PBSNH, vol. 7, p. 165 (coast of China, 23°50′N., in sand, 25 fathoms, W. Stimpson), long. 30, diam. 3 mm.; 1862, Otia Conch., p. 119. Holotype USNM 24149, figured by Pilsbry, 1897, Manual of Conchology, ser. 1, vol. 17, p. 93, pl. 17. figs. 65–67; paratype MCZ 169033, *ex* NYSM 145, original no. G 2405; paratype MCZ 216577 *ex* Smithsonian Inst. (printed label). NPEE.

acinosa, Nassa: 1850, PBSNH, vol. 3, p. 154 (hab.?), long. $\frac{7}{10}$, lat. $\frac{1}{10}$ in.; 1852, USEE, vol. 12, p. 261, pl. 19, fig. 329,a,b; 1862, Otia Conch., p. 69. Two syntypes USNM 5725, both smaller than measured specimen.

acinosa, Peronia: 1852, USEE, vol. 12, p. 291, pl. 21, fig. 384,a (Feejee [Fiji] Islands), long. 1½, lat. ⅝ in.; 1862, Otia Conch., p. 226.

acinosus, Trochus [Tectus]: 1849, PBSNH, vol. 3, p. 92 (New Zealand), diam. ⅝, alt. ⅝ in.; 1852, USEE, vol. 12, p. 179, pl. 13, fig. 217,a–c; 1862, Otia Conch., pp. 57, 245. Figured holotype USNM 5617.

actutus, Ziziphinus **Plate 15, fig. 14**

1861, PBSNH, vol. 8, p. 19 (Eastern Coral Seas, W. Stimpson), axis 4, diam. 3 mm.; 1862, Otia Conch, p. 157. Lectotype, here selected, USNM 24157, original no. 414, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 564, pl. 50, figs. 6, 7. NPEE.

aculeus, Cingula **Plate 10, fig. 6**

1841, Invert. Massachusetts, p. 266, fig. 172 (on stones about low water mark, at East Boston, [Massachusetts]), length 3/20, breadth 1/15 in.; divergence 23°. Mentioned as being in BSNH 2359, now lost, and in Massachusetts State Cabinet 32; 1862, Otia Conch., p. 182; 1870, Invert. Massachusetts, p. 299, fig. 568 [genus changed to *Rissoa*]. Lectotype, here selected, MCZ 152869 *ex* Massachusetts State coll.; 3 paratypes MCZ 225217 from same lot.

***acuminata, Achatinella* [*Leptachatina*]:** 1847, PBSNH, vol. 2, p. 200 (Kauai, Sandwich [Hawaiian] Islands), long. 19/40, lat. 1/8 in.; 1852, USEE, vol. 12, p. 87, pl. 7, fig. 100; 1862, Otia Conch., pp. 35, 244.

"Single broken specimen in Smithsonian [USNM 5502]. A careful search through Gould's collection in Albany did not produce another specimen." C. M. Cooke, 1911, *in* Pilsbry, Manual of Conchology, ser. 2, vol. 21, p. 5.

acuminata, Alvania **Plate 12, fig. 1**

1861, PBSNH, vol. 7, p. 402 (Bonin Islands, W. Stimpson), axis 3, diam. 1 mm.; 1862, Otia Conch., p. 146. Measured holotype USNM 943. NPEE.

acuminata, Littorina: 1849, PBSNH, vol. 3, p. 84 (Mangsi Island [Strait of Balabac]), long. 3/10, lat. 1/8 in.; 1852, USEE, vol. 12, p. 200, pl. 14, fig. 239,a,b; 1862, Otia Conch, p. 53. Holotype USNM 5638; 2 paratypes USNM 612325; paratype MCZ 169035 *ex* NYSM 81, original no. G 2564; paratype MCZ 136620 *ex* BSNH 5419; paratype MCZ 119415 *ex* Smithsonian Inst. (printed label).

acuminata, Monoptygma **Plate 4, fig. 8**

1861, PBSNH, vol. 7, p. 406 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 6, diam. 2 mm.; 1862, Otia Conch., p. 150. Measured holotype USNM 24255, original no. 2101; paratype MCZ 169036 *ex* NYSM 46, original no. G 2458. NPEE.

adunca, Neaera: 1861, PBSNH, vol. 8, p. 24 (Kagoshima Bay [Japan], sandy mud, 12–15 fathoms, W. Stimpson), long. 5, lat. 4 mm.; 1862, Otia Conch., p. 162. Type lot USNM 1296, not located. NPEE.

***adunca, Scrobicularis* (*Capsa*):** 1861, PBSNH, vol. 8, p. 28 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 22, alt. 15, lat. 10 mm.; 1862, Otia Conch., p. 167. NPEE.

aduncum, Cerithium: 1849, PBSNH, vol. 3, p. 119 (Mindanao [Philippine Islands], long. 1, lat. ⅝ in.; 1852, USEE, vol. 12, p. 147, pl. 10, fig. 167,a,b; 1856, ibid., Addenda and Corrigenda, p. 502; 1862, Otia Conch., pp. 61, 245. Figured Holotype USNM 5567.

aduncus, Ancylus: 1847, PBSNH, vol. 2, p. 210 (mountain streams, Madeira), long. ⅕, lat. 3/20, alt. 1/10 in.; 1852, USEE, vol. 12, p. 125, pl. 32, fig. 495,a–c; 1862 Otia Conch., p. 41. Figured holotype USNM 5885; paratype MCZ 169037 *ex* NYSM 312, original no. G 2577.

***adusta, Achatina* [*Carelia*]:** 1845, PBSNH, vol. 2, p. 26 (Sandwich [Hawaiian] Islands), long. 1½, lat. ⅝ in.; Otia Conch., p. 194. Listed by Jay, 1852, Catalogue of Shells in the Jay Collection, p. 214: "*Achatinella adusta* Gould, Sandwich Islands is *Achatinella bicolor* Jay." No types found in NYSM collection or in Jay collection at Amer. Mus. Nat. Hist., New York.

aeruginosa, Helix **Plate 36, fig. 7**

1855, PBSNH, vol. 5, p. 127 (San Francisco, California, Dr. Bigelow), diam. 1⅝, axis ⅛ to 1/10 in.; 1862, Otia Conch., p. 215.

Not Pfeiffer, 1854 [1855] changed *Helix arrosa* 'Gould,' W. G. Binney, 1858, Proc. Acad. Nat. Sci. Philadelphia 1857, p. 185. Lectotype, here selected, MCZ 169046 *ex* NYSM 231, original no. A 5370; 2 paratypes MCZ 169047 *ex* NYSM 231 and 241, original nos. A 5370, A 5347, and paratype USNM 611270 from same NYSM lots; paratype USNM 8558.

***Aesopus*, new genus:** 1860, PBSNH, vol. 7, p. 383; 1862, Otia Conch., p. 138: "The form and aspect of the shell, and the structure of the animal indicate its place to be intermediate between *Mitra* and *Columbella.*" Type species: *Aesopus japonicus* Gould by monotypy. NPEE.

aestuosa, Neptunea: 1860, PBSNH, vol. 7, p. 326 (Kagos[h]ima [Japan], W. Stimpson), axis 45, diam. 25 mm.; 1862, Otia Conch., p. 123. NPEE.

***Agadina*, new genus:** 1852, USEE, vol. 12, p. 486; 1862, Otia Conch., p. 234. Type species: *Limacina* (?) *cucullata* Gould by monotypy.

albicincta, Mangelia: 1860, PBSNH, vol. 7, p. 340 (Loo Choo Seas [off Ryukyu Islands], W. Stimpson), axis 4, diam. 2 mm.; 1862, Otia Conch., p. 137. NPEE.

albonodosa* Carpenter, *Cerithidea: 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 205. See Palmer, 1958, Geol. Soc. Amer. Mem. 76, p. 175.

albula, Margarita: 1861, PBSNH, vol. 8, p. 15 (Arctic Seas, W. Stimpson), axis 5, diam. 8 mm.; 1862, Otia Conch., p. 154. NPEE.

***algida, Natica* [*Lunatia*]:** 1848, PBSNH, vol. 3, p. 73 (Rio Negro [Argentina]), long. ⅝, lat. ⅜ in.; 1852, USEE, vol 12, p. 214, pl. 15,

fig. 256,a (dead specimens obtained at Classet, Oregon); 1862, Otia Conch., pp. 50, 244.

algosus, Mytilus: 1850, PBSNH, vol. 3, p. 344 (South Seas, long. 1¾, lat. ⅝, alt. ⅝ in.; 1852, USEE, vol. 12, p. 450, pl. 41, fig. 566,a (Feejee [Fiji] Islands); 1862, Otia Conch., p. 94. 3 syntypes MCZ 154352 [Peru], *ex* Smithsonian Inst. (printed label); syntype MCZ 216829 [Peru], *ex* BSNH 8287. Not found in USNM.

alternata, Columbella **Plate 8, fig. 15**

1860, PBSNH, vol. 7, p. 335 (Hong Kong [China], W. Stimpson), axis 3, diam. 1.5 mm.; 1862, Otia Conch., p. 131. Lectotype, here selected, USNM 24222, original no. 582, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 574, pl. 51, figs. 28, 29. NPEE.

altilis, Cyrena: 1853, BJNH, vol. 6, p. 400, pl. 16, fig. 5 ("Mexico," W. Rich; "Mazatlan ?" E. Jewett), long. diam. 1⅜, vert. 1½, trans. 1½ in.; one specimen from each locality; 1862, Otia Conch., p. 188; ". . . is regarded as a variety of *C. mexicana* Broderip and Sowerby."

T. Prime, 1865, Smithsonian Misc. Coll., vol. 7, art. 5, p. 23, says: "I have examined an original specimen of *C. altilis*." Syntype USNM 2402 *ex* W. Rich with *C. altilis* pencilled in one valve, presumably in T. Prime's hand.

altilis, Emarginula [(***Clypidina***)] **Plate 19, fig. 8**

1859, PBSNH, vol. 7, p. 162 (Kagos[h]ima Bay [Japan], 10 fathoms, gravelly, W. Stimpson), long. 5, lat. 4, alt. 4 mm.; 1862, Otia Conch., p. 116. Lectotype, here selected, USNM 24116. NPEE.

alutaceum, Bittium **Plate 12, fig. 11**

1861, PBSNH, vol. 7, p. 387 (China Seas, W. Stimpson), axis 7, diam. 3 mm.; 1862, Otia Conch., p. 142. Lectotype, here selected, USNM 24179, original no. 531, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 569, pl. 50, figs. 14, 15. NPEE.

alveata, Semele: 1861, PBSNH, vol. 8, p. 27 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 90, alt. 28, lat. 15 mm.; 1862, Otia Conch., p. 166. Type lot USNM 1177, not located. NPEE.

ambigua, Pyramidella [***Rissoa, Rissoina***]: 1849, PBSNH, vol. 3, p. 118 (Cleremont Tonnere Island [Reao], Paumoto [Tuamotu] Islands, Couthouy), axis ¼, diam. $\frac{1}{10}$ in.; 1852, USEE, vol. 12, p. 217, pl. 15, fig. 261,a–c [genus changed to *Rissoa*]; 1862, Otia Conch., pp. 60, 245.

ambustus, Fusus: 1853, BJNH, vol. 6, p. 385, pl. 14, fig. 18 (Mazatlan [Mexico], T. P. Green), length 1¾, diam. ¾ in.; 1862, Otia Conch., p. 187.

americanus, Solen ensis: 1870, Invert. Massachusetts, p. 42, fig. 366 [Massachusetts].

ammon, Planorbis: 1855, PBSNH, vol. 5, p. 129 (Cienaga Grande, the Colorado Low Desert [Imperial Co., Calif.], T. H. Webb and W. P. Blake), axis 5/8 ad 1, diam. 1/4 ad 1/2 in.; 1855, *in* Blake, Appendix, Prel. Geol. Rep., R.R. Route to Pacific, p. 23; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, Appendix, art. 3, p. 331, pl. 11, figs. 12–18; 1862, Otia Conch., p. 216. Lectotype, here selected, USNM 13392 [cataloged as "Invert. Fossile," now with recent collection], specimen shown in fig. 16; 60 paratypes MCZ 169040 *ex* NYSM 311.

***Amnicola* Gould and Haldeman, new genus:** 1841, Invert. Massachusetts p. 228. Type species: *Paludina porata* Say, by monotypy.

amoena, Neritina: 1847, PBSNH, vol. 2, p. 238 (hab.?), axis 3/16, lat. 3/8 in.; 1852, USEE, vol. 12, p. 159, pl. 11, fig. 192,a; 1862, Otia Conch., p. 49. Syntype USNM 5592; 4 syntypes MCZ 169038 *ex* NYSM 111, original no. A 4407, all larger than the measured type; 2 syntypes MCZ *ex* BSNH 3655.

***amoenus, Trochus* [*Gibbula*]:** 1849, PBSNH, vol. 3, p. 107 (Feejee [Fiji] Islands), diam. 3/10, alt. 3/10 in.; 1852, USEE, vol. 12, p. 187, pl. 23, fig. 218,a-c; 1862, Otia. Conch., pp. 58, 245. Presumed holotype USNM 5618 agrees with the figure and was the only type located; 20 paratypes MCZ 169039 *ex* NYSM 123, original no. A 2918.

amplexa, Clathurella: 1860 PBSNH, vol. 7, p. 338 (Simon's Bay [Cape of Good Hope], 12 fathoms, sandy bottom, W. Stimpson), axis 9, diam. 3 mm.; 1862 Otia Conch., p. 135. Holotype USNM 24093, original no. 217, figured by Bartsch, 1915, USNM Bull. 91, p. 30, pl. 2, fig. 6. NPEE.

amussitatus, Turbo **Plate 17, fig. 3**
1861, PBSNH, vol. 8, p. 22 (hab. ? [Shimoda, Japan]), axis 12 mm.; 1862, Otia Conch., p. 160. Lectotype, here selected, MCZ 216592 *ex* Smithsonian Inst. (printed label); 2 paratypes MCZ 87864 *ex* BSNH 5577.

***anceps, Helix* (*Caracolla*)** **Plate 37, fig. 2**
1843, PBSNH, vol. 1, p. 139 ([Tavoy,] British Burmah [Burma], F. Mason), diam. 7/10, alt. 7/10 in.; 1844, BJNH, vol. 4, p. 454, pl. 25, fig. 4; 1862, Otia Conch., p. 170. Lectotype, here selected, MCZ 169041 *ex* NYSM 254, original no. A 569 and 10 paratypes MCZ 225231 from same NYSM lot; 2 paratypes MCZ 87869 *ex* BSNH; paratype MCZ 11176 *ex* J. G. Anthony.

***anguina, Helix* [*Corilla*]** **Plate 38, fig. 8**
1847, PBSNH, vol. 2, p. 218 (Manko, near Newville, [Province of] Tavoy [Burma], Mrs. Vinton), diam. 1, alt. 1/4 in.; 1862, Otia Conch., p. 200. Lectotype, here selected, MCZ 169042 *ex* NYSM 257,

original no. A 558; paratype MCZ 169043 and paratype USNM 611237 from same NYSM lot.

angusta, Haminea **Plate 5, fig. 1**

1859, PBSNH, vol. 7, p. 139 (Simoda [Shimoda, Japan], W. Stimpson), axis 6, diam. 4 mm.; 1862, Otia Conch., p. 111. Measured holotype USNM 2096, badly damaged.

antarctica, Panopaea: 1850, PBSNH, vol. 3, p. 214 (mouth of Rio Negro, Patagonia [Argentina]), long. 2½, lat. 1½, alt. 2 in.; 1852, USEE, vol. 12, p. 386 [engraving omitted]; 1862, Otia Conch., p. 74.

antarctica **'Couthouy' Gould, *Siphonaria:*** 1852, USEE, vol. 12, p. 362, pl. 30, fig. 464,a,b (hab. ? [Orange Harbor, located on west side of Bahía Nassau, Tierra del Fuego]), no measurements; not in 1862, Otia Conch. 3 syntypes MCZ 216830 and 216745 *ex* Smithsonian Inst.

antarcticus **'Couthouy' Gould, *Sigaretus:*** 1852, USEE, vol. 12, p. 216, pl. 15, fig. 259,a-c (among stones, at low tide, Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego], Midshipman Elliot [J. P. Couthouy]), length 1⅜, breadth 1⅛ in.; not in 1862, Otia Conch. Gould says in the original description that the shell was not observed.

apiae **Recluz, *Cyclostoma:*** 1851, Journ. de Conch., vol. 2, p. 213, pl. 6, figs. 10–11. See under *plicatum, Cyclostoma.*

apicina, Monilea **Plate 14, fig. 4**

1861, PBSNH, vol. 8, p. 16 (Port Jackson [New South Wales, Australia], W. Stimpson), axis 5, diam. 6 mm.; 1862, Otia Conch., p. 154. Measured holotype USNM 24169, original no. 346. NPEE.

apicina, Tornatina **Plate 15, fig. 16**

1859, PBSNH, vol. 7, p. 139 (Sydney Harbor [New South Wales, Australia], W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 122. Measured holotype USNM 284. See Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 337. NPEE.

araneosa, Columbella **Plate 8, fig. 9**

1860, PBSNH, vol. 7, p. 336 (Kagos[h]ima Bay [Japan], and China Coast, W. Stimpson), axis 10, diam. 4 mm.; 1862, Otia Conch., p. 132. Lectotype, here selected, USNM 24108, original nos. 1368 and 1857, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 571, pl. 51, fig. 3; localities not separated.

araneosa, Patella (Lottia?) **[*Tectura*]:** 1846, PBSNH, vol. 2, p. 151, (Sooloo [Sulu] Sea), long. ⅝, lat. ½, alt. ¼ in.; 1852, USEE, vol. 12, p. 347, pl. 29, fig. 450,a,b; 1862, Otia Conch., pp. 10, 243. Figured holotype USNM 5840.

arata, Neptunia **Plate 16, fig. 8**

1860, PBSNH, vol. 7, p. 326 (hab. ?), axis 23, diam. 10 mm.; 1862, Otia Conch., p. 123. Measured holotype USNM 36723. NPEE.

aratus, Saxidomus: 1861, PBSNH, vol. 8, p. 30 (San Francisco [California]), long. 4.5, alt. 3, lat. 2 in.; 1862, Otia Conch., p. 168. NPEE.

arctata, Ringicula **Plate 15, fig. 9**

1860, PBSNH, vol. 7, p. 325 (Hong Kong Harbor [China], W. Stimpson), axis 4, diam. 3 mm.; 1862, Otia Conch. p. 122. Probable measured holotype, here selected, lectotype USNM 567, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 578, pl. 51, figs. 30, 31; 2 paratypes USNM 612334. NPEE.

arctipinnis, Sepioteuthis: 1852, USEE, vol. 12, p. 479, pl. 49, fig. 593,a–c (Maui, Sandwich [Hawaiian] Islands), length of body 6, head 2, superior arms 2½, inferior lateral arms 3, tentacular arms 8, cup-bearing portions 2¾, greatest breadth 2½ in.; 1862, Otia Conch., p. 233.

arcuata, Modiolaria **Plate 21, fig. 6**

1861, PBSNH, vol. 8, p. 38 (Kagos[h]ima [Japan], W. Stimpson), long. 5, alt. 2 mm.; 1862 Otia Conch., p. 176. Half measured holotype USNM 24065, original no. 1419 b. NPEE.

areolatus, Mytilus (***Modiolaria***) [***Modiola***]**:** 1850, PBSNH, vol. 3, p. 343 (New Zealand), long. 2, alt. 1¼, lat. 1 in.; 1852, USEE, vol. 12, p. 452, pl. 41, fig. 562,a; 1860, Otia Conch., p. 93. Syntype MCZ 154351, *ex* Smithsonian Inst. (printed label); syntype MCZ 87420 *ex* BSNH 8308.

argentata, Margarita **Plate 5, fig. 6**

1841, Invert. Massachusetts, p. 256, fig. 164 (in fishes caught off Cape Ann and Cohasset [Massachusetts]), length 1/10, breadth ⅛ in. Mentioned as being in BSNH 2412, now lost, and in Massachusetts State Cabinet 35; 1862, Otia Conch., p. 182; 1870, Invert. Massachusetts, p. 282, fig. 549. Lectotype, here selected, MCZ 178560 and paratype MCZ 225218, both *ex* Massachusetts State Coll.; paratypes, original no. A 6123, listed as lost in 1875, 27th Ann. Rep. NYSM, p. 13.

argentata, Philine: 1859, PBSNH, vol. 7, p. 139 (Hakodadi [Hakodate] Bay [Japan], in sandy mud, 2–6 fathoms, W. Stimpson), axis 6, diam. 5 mm.; 1862, Otia Conch., p. 111. Probable holotype USNM 1680, badly crushed. NPEE.

argillacea, Perna: 1850, PBSNH, vol. 3, p. 311 (hab. ?), long. 2½, alt. 3, lat. ⅜ in.; 1852, USEE, vol. 12, p. 444, pl. 40, fig. 559,a–b, 1862, Otia Conch., p. 91. Figured holotype USNM 5944; 2 paratypes MCZ 216811 *ex* Smithsonian Inst. (printed label).

arguta, Terebra: 1853, BJNH, vol. 6, p. 380, p. 14, fig. 19 (hab.? [Gulf of California]), length ⅝, breadth ⅛ in.; 1862, Otia Conch., p. 185: ". . . is *Terbra fulgurata* Philippi." Figured holotype MCZ 169044 *ex* NYSM 40, original no. 2786; 6 paratypes MCZ 169045 and 2 paratypes USNM 611267 from same NYSM lot.

arguta, Terebra: 1860, PBSNH, vol. 7, p. 330 (Porto Praya [Praia, Cape Verde Islands], W. Stimpson), axis 25, diam. 5 mm.; 1862, Otia Conch., p. 126. NPEE.

Not *Terebra arguta* Gould 1853. If this species is valid, a new name must be chosen for it.

arrosa **'Gould' W. G. Binney, *Helix:*** 1858, Proc. Acad. Nat. Sci. Philadelphia 1857, p. 185. New name for *Helix aeruginosa* Gould not Pfeiffer 1854 [1855].

artemidis **Carpenter, *Lucina:*** 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 201 (Alcapulco [Mexico], teste Gould).

articulata, Margarita: 1861, PBSNH, vol. 8, p. 15 (Simon's Bay, Cape of Good Hope, W. Stimpson), axis 5, diam. 6 mm.; 1862, Otia Conch., p. 153. Holotype USNM 121, figured by Bartsch, 1915, USNM Bull. 91, p. 155, pl. 25, figs. 4, 5, 6. NPEE.

articulata, Nerita: 1847, PBSNH, vol. 2, p. 220 (Tavoy [Burma], F. Mason), diam. ⅞, alt. ½ in.; 1862, Otia Conch., p. 201.

aspera, Emarginula: 1846, PBSNH, vol. 2, p. 154 (Sydney, New South Wales [Australia]), long. 1/10, lat. 3/10, alt. 2/10 in.; 1852, USEE, vol. 12, p. 372, pl. 32, fig. 493,a–c; 1862, Otia Conch., p. 12.

asperrimus **'Couthouy' Gould, *Chiton:*** 1852, USEE, vol. 12, p. 326, pl. 27, fig. 418[413],a–b (Ilha do Pai, at entrance of harbor of Rio [de] Janeiro [Brazil], J. P. Couthouy), length 1, breadth ⅝ in.; not in 1862, Otia Conch. Figured holotype USNM 5809 [figure with the misprint "418"].

aspersa, Clathurella **Plate 5, fig. 9**

1860, PBSNH, vol. 7, p. 338 (off Hong Kong [China], in 15 fathoms, shelly sand, W. Stimpson), axis 14, diam. 4 mm.; 1862, Otia Conch., p. 134. Lectotype, here selected, USNM 24147, original no. 532, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 576, pl. 51, figs. 24, 25. NPEE.

aspersa, Doris: 1852, USEE, vol. 12, p. 304, pl. 25, fig. 399,a–c (Vincennes Island [Kauehe], Paumotu [Tuamotu] Islands), long. 1½, lat. ½ in.; 1862, Otia Conch., p. 229.

asteriscus, Liotia **Plate 5, fig. 2**

1859, PBSNH, vol. 7, p. 142 (Hong Kong [China], W. Stimpson), diam. 1.5, axis 1 mm.; 1862, Otia Conch., p. 114. Lectotype, here selected, USNM 24055, original no. 2050, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 565, pl. 50, figs. 30,

31; 2 paratypes MCZ 169048 *ex* NYSM 120, original no. G 2454. NPEE.

***Athoracophorus*, new genus:** 1852, USEE, vol. 12, p. 1; 1856, ibid., Addenda and Corrigenda, p. 500: "*Athoracophorus* is a new name for *Janella* Gray," not Grateloup 1838. Type species: *Limax betentaculatus* Quoy, by monotypy.

***atomaria, Cingula* "(?)"** **Plate 14, fig. 1**

1861, PBSNH, vol. 7, p. 403 (China Seas, W. Stimpson), axis 1.5, diam. 1 mm.; 1862, Otia Conch., p. 147. Holotype USNM 24181, original no. 386. NPEE.

atomaria, Crithe **Plate 8, fig. 12**

1860, PBSNH, vol. 7, p. 384 (China Seas, W. Stimpson), axis 0.5, 0.3 mm.; 1862, Otia Conch., p. 139. Measured holotype USNM 24181, original no. 386, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 575, pl. 51, figs. 62, 63. NPEE.

***atrata, Columbella* [(*Anachis*)]** **Plate 8, fig. 5**

1860, PBSNH, vol. 7, p. 334 (Hong Kong Harbor [China], W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 131. Lectotype, here selected, USNM 2026, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 572, pl. 51, figs. 14, 15; 2 paratypes USNM 24172; 2 paratypes MCZ 169049 *ex* NYSM 30, original no. G 2464; paratype Redpath Mus. 8066. NPEE.

atricallosus, Bulimus: 1843, PBSNH, vol. 1, p. 140 ([Tavoy,] British Burmah [Burma], F. Mason), length 2⅛, breadth 1 in.; 1844, BJNH, vol. 4, p. 457, pl. 24, fig. 3 [Gould says he had two specimens]; 1862, Otia Conch., p. 190. Figured holotype MCZ 169050 *ex* NYSM 198, original no. A 6524; paratype MCZ 169050, a sinistral specimen, from same NYSM lot.

***atropurpureus, Trochus* (*Monodonta*) [*Clanculus*]:** 1849, PBSNH, vol. 3, p. 107 ([Pango Pango,] Tutuilla, Navigator [Samoan] Islands), alt. 7/10, lat. 3/10 in.; 1852, USEE, vol. 12, p. 189, pl. 13, fig. 224,a–d; 1862, Otia, Conch., p. 59, 245. Figured Holotype USNM 5624.

attenuatus* 'Couthouy' Gould, *Eolis: 1852, USEE, vol. 12, p. 305, pl. 25, fig. 401,a–d (found on a fragment of *Megacystus*, off the coast of Chili, lat. 36° S; long. 74° W., Mr. North), full length 2½, breadth of foot ¼ in.; not in 1862, Otia Conch.

aurantia, Truncatella: 1847, PBSNH, vol. 2, p. 208 (Mangsi Island, near Borneo [Strait of Balabac], Pickering), long. 3/10, lat. 1/10 in.; 1852, USEE, vol. 12, p. 110, pl. 8, fig. 125,a–b; 1862, Otia Conch., p. 39.

aurantiaca, Cerithiopsis: 1861, PBSNH, vol. 7, p. 388 (China Seas, W. Stimpson), axis 2, diam. 1 in.; 1862, Otia Conch., p. 142. Note in original USNM catalog under 381: "Lost."

aurita, Doris: 1852, USEE, vol. 12, p. 299, pl. 23, fig. 394,a (from a reef, Sandalwood Bay, Fiji Islands), "long. 3½, lat. 1⅛ in."; 1862, Otia Conch., p. 228.

baccata, Melania **Plate 44, fig. 1**

1847, PBSNH, vol. 2, p. 219 (Thoungyin River [a branch of the Salween River, Burma], Mrs. Vinton), long. 2, lat. ¾ in.; 1862, Otia Conch., p. 200. Measured holotype MCZ 169052 *ex* NYSM 66, original no. G 2582; paratype USNM 611239 from same NYSM lot.

badia, Amnicola: 1848, PBSNH, vol. 3, p. 74 (Banks' Peninsula, New Zealand), long. ⅛, lat. ½ in.; 1852, USEE, vol. 12, p. 126, pl. 9, fig. 150,a,b (Tipoona, Banks' Peninsula, New Zealand, common in streams among plants, Pickering); 1862, Otia Conch., p. 51. Presumed figured holotype USNM 5550; 14 paratypes MCZ 169053 *ex* NYSM 97, original no. G 2566; 6 paratypes MCZ 216747 *ex* Smithsonian Inst. (printed label).

***Badistes,* new genus:** 1862, Otia Conch., p. 243. Type species: *Helix gulosa* Gould, by monotypy.

balanoidea, Ampullaria **Plate 35, fig. 7**

1850, PBSNH, vol. 3, p. 196 (Grand Cape Mount, Liberia, on rocks in rapid streams, G. A. Perkins), diam. ¾ in.; 1862, Otia Conch., p. 209. Probable measured holotype, here selected, lectotype MCZ 169054 *ex* NYSM 102, original no. G 2353; paratype USNM 611247 from same NYSM lot.

balaustina, Kellia **Plate 29, fig. 8**

1861, PBSNH, vol. 8, p. 34 (Sydney Harbor [New South Wales, Australia], W. Stimpson), long. 2.5, alt. 2 mm.; 1862, Otia Conch., p. 172. Measured holotype USNM 24241, original no. 305. Type seen by Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 268. NPEE.

balteata, Achatina **Plate 42, fig. 5**

1850, PBSNH, vol. 3, p. 195 (Liberia, G. A. Perkins), long. 1⅝, lat. ⅞ in.; 1862, Otia Conch., p. 208. Lectotype, here selected, MCZ 169055 *ex* NYSM 192, original no. A 4576; paratype USNM 611245 and paratype MCZ 169056, all from same NYSM lot.

A paratype was figured by Reeve, 1850, Conchologia Iconica, vol. 5, *Achatina*, pl. 23, fig. 128: not *A. balteata* Reeve 1849, changed to *A. gouldii*.

***balteata, Columbella* (*Anachis*)** **Plate 8, fig. 8**

1860, PBSNH, vol. 7, p. 333 (China Seas), axis 4, lat. 2 mm.; 1862, Otia Conch., p. 130. Measured holotype USNM 24220, original no. 438; paratype MCZ 216601 *ex* Smithsonian Inst. (printed label). NPEE.

***barbata, Cyclostoma* [*Japonia*]:** 1859, PBSNH, vol. 6, p. 425 (Ousima [Amami-O-shima, Amami Islands], W. Stimpson), diam. ⅛ in.; 1862, Otia Conch., p. 104.

Not *C. barbatum* Pfeiffer 1855, changed to *Japonia gouldii* Kobelt 1902, Das Tierreich, Lief. 16, Cyclophoridae, p. 60.

batana, Melania **Plate 35, fig. 11**

1843, PBSNH, vol. 1, p. 144 ([Tavoy,] British Burmah [Burma], F. Mason), long. 1, lat. ⅝ in.; 1862, Otia Conch., p. 191. Lectotype, here selected, MCZ 169057 *ex* NYSM 64, original no. G 2580; 30 paratypes MCZ 169058 *ex* NYSM 63 and 64, original no. G 2580 and 3 paratypes USNM 611225 from same NYSM lots; paratype MCZ 165747 *ex* BSNH 3125.

beata, Nassa **Plate 16, fig. 5**

1860, PBSNH, vol. 7, p. 330 (Loo Choo [Okinawa, Ryukyu Islands], in 18 fathoms, sandy, W. Stimpson), axis 10, diam. 6 mm.; 1862, Otia Conch., p. 127. Measured holotype USNM 2018; paratype USNM 24175; paratype MCZ 169069 *ex* NYSM 11, original no. G 2543. NPEE.

beryllina, Helicina: PBSNH, vol. 2, p. 202 (Feejee [Fiji] Islands), lat. ½, alt. ⅜ in.; 1852, USEE, vol. 12, p. 95, pl. 7, fig. 111,a; 1862, Otia Conch., p. 37. Syntype USNM 5513; syntype MCZ 169061 *ex* NYSM 291, original no. G 2627.

bicincta, Columbella **Plate 8, fig. 10**

1860, PBSNH, vol. 7, p. 335 (Hong Kong Harbor [China], 10 fathoms, shelly sand, W. Stimpson), axis 10, diam. 4 mm.; 1862, Otia Conch., p. 132. Presumed holotype, here selected, lectotype USNM 24167, original no. 517, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 571, pl. 51, fig. 4. NPEE.

***bicolor, Cyclostoma* [*Megalomastoma*]** **Plate 40, fig. 4**

1842, BJNH, vol. 4, pt. 1, back cover (Cuba [J. Bartlett]); 1843, PBSNH, vol. 1, p. 138: " . . . is *Cyclostoma auriculatum* D'Orbigny."; 1862, Otia Conch., p. 183. Lectotype, here selected, MCZ 169070 *ex* NYSM 315, original no. A 5406; 2 paratypes MCZ 225222 and 2 paratypes USNM 611251 all from same NYSM lot.

***bicrenatus, Trochus* [*Uvanilla*]:** 1849, PBSNH, vol. 3, p. 106 (hab.?), diam. ⅞, alt. ¾ in.; 1852, USEE, vol. 12, p. 175, pl. 13, fig. 221,a–c (Mr. Hawkin's coll.); 1862, Otia Conch., p. 57. Figured holotype USNM 5621; 2 paratypes MCZ 216598 *ex* Smithsonian Inst. (printed label).

***bicuspidata, Nucula* [*Leda*]:** 1845, PBSNH, vol. 2, p. 37 (Liberia, C. J. Bates), long. ⅝, alt. ¼ in.; 1845, BJNH, vol. 5, p. 292, pl. 24, fig. 8; 1862, Otia Conch., p. 197.

bipartita, Terebra: 1860, PBSNH, vol. 7, p. 330 (Hakodadi [Hakodate] Bay [Japan], 20 fathoms, W. Stimpson), axis 15, diam. 4 mm.; 1862, Otia Conch., p. 126. NPEE.

bisculpta, Ervilia **Plate 28, fig. 1**
1861, PBSNH, vol. 8, p. 28 (Kagos[h]ima [Japan], in sand, 5 fathoms, W. Stimpson), long. 6, alt. 4, lat. 3 mm.; 1862, Otia Conch., p. 166. Measured holotype USNM 24068, original no. 1413. NPEE.

bistriata **Carpenter, *Fasciolaria:*** 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 207.

blandum, Cardium **[*Serripes*]:** 1850, PBSNH, vol. 3, p. 276 (Puget Sound [Washington]), long. 1, alt. ⅘, lat. ⅘ in.; 1852, USEE, vol. 12, p. 418, pl. 36, fig. 534,a [length given as ⅞ in.]; 1862, Otia Conch., p. 83. Syntype USNM 3899; syntype MCZ 216748 *ex* C. B. Adams coll.

borealis, Scalaria: 1852, USEE, vol. 12, p. 207 (Puget Sound [Washington]), [nomen nudum]; listed as synonym of *Scalaria australis* Lamarck.

bracteata, Osteodesma **[*Lyonsia*]:** 1850, PBSNH, vol. 3, p. 217 (Puget Sound [Washington]), long. ¾, alt. ⅜ in.; 1852, USEE, vol. 12, p. 397, pl. 35, fig. 509,a–b [as *bracteatum*]; 1862, Otia Conch., pp. 77, 245. Figured holotype USNM 5896, reduced to fragments.

bracteatus, Unio **Plate 31, fig. 5**
1855, PBSNH, vol. 5, p. 228 (Llanos River, Upper Texas, T. H. Webb), long. 2½, lat. 1, alt. 1⅝ in.; 1862, Otia Conch., p. 217. Lectotype, here selected, USNM 84966, *ex* I. Lea coll. from A. A. Gould.

branchiata, Pholas **[*Martesia*]:** 1845, PBSNH, vol. 2, p. 37 (Liberia, C. J. Bates), long. 1⅛, lat. 13/20 in.; 1845, BJNH, vol. 5, p. 290, pl. 24, fig. 7; 1862, Otia Conch., p. 196. Figured holotype MCZ 169063 *ex* NYSM 337, original no. A 2354; paratype MCZ 169064 from same NYSM lot.

brasilianum, Triton: 1849, PBSNH, vol. 3, p. 142 (Rio [de] Janeiro [Brazil]), long. 2, lat. 1⅛ in.; 1856, USEE, vol. 12, Addenda and Corrigenda, p. 504, pl. 17, fig. 296,a,b (rocks at low water, in outer harbor of Rio [de] Janeiro); 1862, Otia Conch., p. 65. Figured holotype USNM 5694.

brasiliensis **'Couthouy' Gould, *Osteodesma* [*Entodesma, Lyonsia*]:** 1850, PBSNH, vol. 3, p. 218 (Rio [de] Janeiro [Brazil]), long. 1½, alt. ¾ in.; 1852, USEE, vol. 12, p. 398, pl. 35, fig. 510,a,b (in a sandy cove, in the bay of Rio [de] Janeiro): "A single specimen was found"; 1862, Otia Conch., pp. 78, 245.

braziliensis* 'Gould' Sowerby, *Pandora: 1874, *in* Reeve, Conchologia Iconica, vol. 19, *Pandora*, pl. 2, fig. 15 (Brazil).

brevimanus, Onychotheuthis: 1852, USEE, vol. 12, p. 483, pl. 50, fig. 596 (obtained at sea, 120 miles west of Tutuila, Samoa Islands), length 6, of body 3¾, of head ⅝, of fin 1⅜, breadth of body ⅝, length of fin 2¼ in.; 1862, Otia Conch., p. 234.

brunneus* Stimpson, *Pectin: 1851, new name for *Pectin fuscus* 'Linsley' Gould. See under *fuscus* 'Linsley' Gould, *Pectin.*

buccinulum, Dentalium: 1859, PBSNH, vol. 7, p. 166 (Kagos[h]ima [Japan], W. Stimpson), long. 30, diam. 3 mm.; 1862, Otia Conch., p. 119. Holotype USNM 24160, figured by Pilsbry, 1897, Manual of Conchology, ser. 1, vol. 17, p. 14, pl. 5, figs. 74–76; paratype MCZ 169062 *ex* NYSM 147, original no. G 2407; paratype MCZ 39073 *ex* BSNH 9752. NPEE.

bucculenta, Helix **Plate 36, fig. 4**

1844, PBSNH, vol. 3, p. 40 (Georgia to Texas, J. Bartlett), diam. ⅝, axis 3 to ⅝₀ in.; 1857, *in* A. Binney, Terr. Moll. U.S., vol. 3, p. 9, pl. 11a; 1862, Otia Conch., p. 204. Presumed figured holotype MCZ 169059 *ex* NYSM 255, original no. 4164; 6 paratypes MCZ 169060 and paratype USNM 611276 from the same NYSM lot. The locality is erroneously given as "Rhode Island" in 1875, 27th Ann. Rep. NYSM, p. 51.

bulbosa, Melania: 1847, PBSNH, vol. 2, p. 225 (Columbia River, Oregon [Washington], Drayton), long. ½, lat. ⅝₀ in.; 1852, USEE, vol. 12, p. 142, pl. 10, fig. 163,a; 1862, Otia Conch., p. 46. Presumed figured holotype MCZ 169067 *ex* NYSM 208, original no. A 5109, and 8 paratypes MCZ 169068 from same NYSM lot; 2 paratypes USNM 5563.

bulbosa, Petricola: 1851, PBSNH, vol. 4, p. 88 (Guaymas [Sonora State, Mexico], T. P. Greene), long. 1⅛, lat. ⅝, alt. ⅞ in.; 1853, BJNH, vol. 6, p. 15, fig. 5; 1862, Otia Conch., p. 210. Holotype MCZ 169065 *ex* NYSM 362, original No. G 2141.

bulla, Kellia **Plate 29, fig. 2**

1861, PBSNH, vol. 8, p. 34 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 8, lat. 6, alt. 6 mm.; 1862, Otia Conch., p. 172. Half measured holotype USNM 24060. NPEE.

bullata, Glandina: 1848, PBSNH, vol. 3, p. 64 (Louisiana, E. R. Beadle), axis 1½, breadth ⅞ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 298, pl. 62a (region of New Orleans); 1862, Otia Conch., p. 205. The original description would indicate that types were in BSNH, but they were not found there. 2 syntypes MCZ 12813 *ex* W. G. Binney coll. W. G. Binney, 1885, Manual of American Land Shells, p. 475, mentions one specimen in the USNM 38772 from the A. Binney coll., but does not claim it to be a type.

bullata, Physa **Plate 44, fig. 4**

1855, PBSNH, vol. 5, p. 128 (Oregon, J. G. Cooper), long. 1, lat. 1/20 ad 1/10 in.; 1862, Otia Conch., p. 216. Lectotype, here selected, USNM 9170; paratype USNM 611837 from same lot, badly broken.

bullata, Tornatella: 1847, PBSNH, vol. 2, p. 251 (dredged off Patagonia [Argentina]), long. ¼, lat. ⅛ in.; 1852, USEE, vol. 12, p. 218, pl. 15, fig. 263,a,b; 1862, Otia Conch., p. 98.

bullatus, Amphiperas: 1861, PBSNH, vol. 7, p. 385 [no locality or measurements given]; 1862, Otia Conch., p. 140. NPEE.

bullula, Odostomia **Plate 9, fig. 1**

1861, PBSNH, vol. 7, p. 404 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 2, diam. 1 mm.; 1862, Otia Conch., p. 148. Measured holotype USNM 24069, original no. 2097. NPEE.

bursatella, Helix [***Pitys***]: 1846, PBSNH, vol. 2, p. 175 (Taheiti [Tahiti] and Eimeo [Moorea, Society Islands] at 2000 to 5000 feet elevation, J. P. Couthouy); 1852, USEE, vol. 12, p. 51, pl. 4, fig. 52,a–m; variety a: lat. 3/10, alt. 2/10 in.; variety b: lat. ⅕, alt. 1/10 in.; 1856, ibid., Addenda and Corrigenda, p. 501; 1862, Otia Conch., pp. 22, 243. 3 syntypes USNM 5452; 5 syntypes MCZ 169066 *ex* NYSM 258, original no. A 744; 5 syntypes MCZ 17217 *ex* Smithsonian Inst. (printed label).

Variety b was named *Helix jacquinoti* Pfeiffer, 1849, Proc. Zool. Soc. London, p. 128, teste Pfeiffer, 1853, Monographiae Heliceorum Viventium, vol. 3, p. 143.

buxeus, Obeliscus **Plate 9, fig. 3**

1861, PBSNH, vol. 7, p. 403 (China Seas, W. Stimpson), axis 6.5, diam. 2 mm.; 1862, Otia Conch., p. 147. Measured holotype USNM 339. NPEE.

caduca, Scrobicularia: 1861, PBSNH, vol. 8, p. 28 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 10, alt. 8, lat. 6 mm;. 1862, Otia Conch., p. 166. NPEE.

caelata, Turbonilla **Plate 20, fig. 3**

1861, PBSNH, vol. 7, p. 406 (Hong Kong [China], W. Stimpson), axis 6.7, diam. 1.7 mm.; 1862, Otia Conch., p. 150. Measured holotype USNM 556. NPEE.

caelatum* 'Couthouy' Gould, *Cerithium [***Pirennella* "?"**]: 1849, PBSNH, vol. 3, p. 120 (Terra del Fuego), long. ¾, lat. ⅓ in.; 1852, USEE, vol. 12, p. 148, pl. 10, fig. 174,a–d (Orange Harbor [located on west side of Bahía Nassau], Tierra del Fuego, J. P. Couthouy); 1862, Otia Conch., p. 62. Figured holotype USNM 5574 is fig. b and is shown natural size.

calcarea, Venus: 1850, PBSNH, vol. 3, p. 277 (New Zealand), long. 2½, alt. 2, lat. 1⅞ in.; 1852, USEE, vol. 12, p. 423 [not figured]; 1862, Otia Conch., p. 85.

calculiferus, Triforis **Plate 13, fig. 2**
1861, PBSNH, vol. 7, p. 388 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 6, diam. 2 mm.; 1862, Otia Conch., p. 144. Lectotype, here selected, Redpath Mus. 5203, original USNM 1252*. NPEE.

calculosa **'Couthouy' Gould, *Helix:*** 1852, USEE, vol. 12, p. 48, pl. 5, fig. 63,a–c (Tahiti [Society Islands], J. P. Couthouy), diam. 1/10, axis 1/12 in.; 1862, Otia Conch., p. 224. Syntype USNM 5465.

californica **'Nuttall' Gould and Carpenter, *Pirena:*** 1856 [1857], Proc. Zool. Soc. London, p. 206. Nude name listed as a synonym of *Cerithidea* (*?sacrata* var.) *fuscata* Gould.

caliginosa, Littorina: 1849, PBSNH, vol. 3, p. 83 (Terra [Tierra] del Fuego, J. P. Couthouy), long. 1/5, lat. 1/8 in.; 1852, USEE, vol. 12, p. 198, pl. 14, fig. 240,a–b; 1862, Otia Conch., p. 53. Possible figured holotype USNM 5639; paratype USNM 612304; 43 paratypes MCZ 169071 *ex* NYSM 80, original no. G 2563; paratypes MCZ 87419, 141037, 151793, 197145 all *ex* Smithsonian Inst. (printed labels).

Calobates, **new subgenus:** 1862, PBSNH, vol. 8, p. 283. Designated type species: *Teredo thoracites* Gould; 1862, Otia Conch., p. 241.

calva, Helix **[*Hemiplecta*]:** 1846, PBSNH, vol. 2, p. 179 (Feejee [Fiji] Islands), lat. 1/5, alt. 1/2 in.; 1852, USEE, vol. 12, p. 31, pl. 5, fig. 69,a–b; not Lowe, 1831, changed by Gould to *H. casca*; 1862, Otia Conch., p. 243. Probable holotype, here selected, lectotype USNM 21012; 2 smaller paratypes USNM 612315. "The examples in USNM 21012 are either too large or too small, but the figure in the Expedition Shells, which exaggerates the rotundity of the aperture, may have been drawn from the largest one" (H. B. Baker, 1941, B. P. Bishop Museum Bull. 166, p. 250). 3 paratypes MCZ 169077 *ex* NYSM 268, original no. G 2625. The largest shell in the NYSM 284 [268] seems to fit Gould's dimensions for *Orpiella casca* most closely; the second biggest specimen is a *Tanychlamys* from India; paratype MCZ 156369 *ex* C. B. Adams coll.; 3 paratypes MCZ 161286 *ex* Peabody Museum, Salem, Mass.; 2 paratypes MCZ 87866 *ex* BSNH 2453; 2 paratypes MCZ 11508. The latter 4 MCZ lots all *ex* Smithsonian Inst. (printed labels).

canaliculata, Natica **[*Amaura*]:** 1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 197; 1841, Invert. Massachusetts, p. 235, fig. 161 (fishes caught on Banks, and one fine specimen from a fish caught in Massachusetts Bay), long. 1 1/10, lat. 7/10 in. [mentioned as being in Massachusetts State Cabinet 43]; 1862, Otia Conch., p. 180: "Name preoccupied [not *N. canalicutata* Deshayes 1832, changed to *N. gouldii* C. B. Adams 1847, not Philippi 1845, Cata-

logue of Recent Shells in Collection of C. B. Adams, p. 21. A lectotype, MCZ 151080, was inadvertently selected for Adams' name by Clench and Turner, 1950, Occ. Pap. Mollusks, vol. 1, p. 288, pl. 41, fig. 12], now regarded as a large form of *N. helicoides* Johnston, of the north of Europe"; 1870, Invert. Massachusetts, p. 348 [under *Amauropsis helicoides*]. Figured holotype MCZ 151080 *ex* Mass. State coll.; 2 paratypes MCZ 225219 from same lot. Presently regarded as *Amauropsis islandica* Gmelin 1790.

canella, Succinea: 1846, PBSNH, vol. 2, p. 184 (Maui, Sandwich [Hawaiian] Islands), long. ⅛, lat. ⅜; 1852, USEE, vol. 12, p. 27, pl. 2, fig. 20,a–b; 1862, Otia Conch., p. 29. Figured holotype USNM 5420; 14 paratypes MCZ 169072 *ex* NYSM 175, original no. G 2643; 2 paratypes MCZ 161661 *ex* Smithsonian Inst. (printed label).

***capax, Lutraria* [*Tresus*]:** 1850, PBSNH, vol. 3, p. 217 (Puget Sound [Washington]), long. 5¾, alt. 4, lat. 3 in.; 1852, USEE, vol. 12, p. 395, pl. 34, fig. 504; 1856, ibid., Addenda and Corrigenda, p. 508: is *Lutraria maxima* Middendorff, not Jonas 1844, ". . . the name given by me, *L. capax*, will stand"; 1862, Otia Conch., p. 76, 245. Measured holotype USNM 3884 [the figure of the type is reduced].

caperata, Vitrina: 1846, PBSNH, vol. 2, p. 181 (Kauai, Sandwich [Hawaiian] Islands, J. P. Couthouy), diam. max. ⅗, alt. ⅕ in.; 1852, USEE, vol. 12, p. 10, pl. 1, fig. 9,a; 1862, Otia Conch., p. 26. Figured holotype USNM 5409; 5 paratypes 135612 *ex* BSNH from Smithsonian Inst.

capillata, Ethalia **Plate 5, fig. 14**

(Coast of China, 23°30′ N. in 25 fathoms, sandy, W. Stimpson), axis 4, diam. 8 mm.; 1862, Otia Conch., p. 155. Probable holotype, here selected, lectotype USNM 1801, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 564, pl. 50, figs. 16, 17; 2 paratypes USNM 24233; 2 paratypes MCZ 169075 *ex* NYSM 121, original no. G 2453; 2 paratypes Redpath Mus. 2273 *ex* Smithsonian Inst. NPEE.

capillata, Mitra: 1850, PBSNH, vol. 3, p. 171 (Madeira Islands, J. P. Couthouy), long. ⅗, lat. ⅕ in.; 1852, USEE, vol. 12, p. 273, pl. 20, fig. 351,a–b.; 1862, Otia Conch , p. 73. Figured holotype USNM 5746.

capillulata, Neritina: 1847, PBSNH, vol. 2, p. 220 (Tavoy [Burma], F. Mason), diam. ⅜, lat. ½ in.; 1862, Otia Conch., p. 200: ". . . is *N. reticularis* Sowerby."

***capitata, Pupa* [*Ennea*]** **Plate 40, fig. 1**

1843, PBSNH, vol. 1, p. 158 (Cape Palmas, Liberia [PBSNH, vol. 1, p. 153], Drs. Savage and Perkins), "long. 1⅒, lat. ¼ in."; 1862, Otia Conch., p. 193. Lectotype, here selected, MCZ 169074 *ex*

NYSM 215, original no. A 1262; 14 paratypes MCZ 169076 and 2 paratypes USNM 611243 from same NYSM lot; 20 paratypes MCZ 87970 *ex* BSNH, original no. 4067 from A. Binney.

capsella, Helix: 1851, in A. Binney, Terr. Moll. U.S., vol. 2, p. 239. See under *rotula, Helix.*

cardinalis, Doris [***Hexabranchus***]: 1852, USEE, vol. 12, p. 302, pl. 25, fig. 397,a (Honolulu, Oahu, Sandwich [Hawaiian] Islands), long. 6, lat. 4½ in.; 1862, Otia Conch., p. 229.

carinata, Lacuna: 1848, PBSNH, vol. 3, p. 75 (Puget Sound), long. 1/10 in.; 1852, USEE, vol. 12, p. 194, pl. 14, fig. 231,a–b (Puget Sound; dredged at Classet [near Cape Flattery, Washington], Pickering); 1862, Otia Conch., p. 52. 2 syntypes USNM 5631, one larger and one smaller than measured type; 2 syntypes MCZ 169079 *ex* NYSM 91, original no. G 2537.

carinata, Pupa: 1842, BJNH, vol. 4, no. 1, back cover (Maryland), 1843, PBSNH, vol. 1, p. 106: ". . . founded on a single specimen, now lost"; 1843, PBSNH, vol. 1, p. 138: ". . . is the young of *Pupa procera* Gould=*P. rupicola* Say"; 1862, Otia Conch., p. 182.

carneola, Eulima **Plate 7, fig. 11**

1861, PBSNH, vol. 7, p. 404 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 4, diam. 1.5 mm.; 1862, Otia Conch., p. 148. Measured holotype USNM 1555. NPEE

casca, Helix: See under *calva, Helix:*

casta, Nassa: 1850, PBSNH, vol. 3, p. 154 (Pacific Ocean), long. 2/5, lat. 1/5 mm.; 1852, USEE, vol. 12, p. 260, pl. 19, fig. 328,a–b; 1862, Otia Conch., p. 69. Figured holotype USNM 5724.

castanea, Columbella: 1850, PBSNH, vol. 3, p. 170 (Rio [de] Janeiro [Brazil]), long. ½, lat. ⅜ in.; 1852, USEE, vol. 12, p. 269, pl. 19, fig. 339,a–b; 1862, Otia Conch., p. 71, 245. Figured holotype USNM 5734 is fig. b; 3 paratypes MCZ 216753 *ex* Smithsonian Inst. (printed label).

castaneus* 'Couthouy' Gould, *Chiton: 1852, USEE, vol. 12, p. 326, pl. 27, fig. 411,a–d (on old shells and in tide pools, Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego], J. P. Couthouy), length 3/10, breadth 1/10 in.; not in 1862, Otia Conch. The probable figured holotype USNM 5802 consists of loose plates.

castrensis, Conus **Plate 10, fig. 8**

1842, BJNH, vol. 4, no. 1, back cover; 1843, PBSNH, vol. 1, p. 138 (hab.?), long. 3, lat. 1½ in.; 1862, Otia Conch., p. 183. Lectotype, here selected, MCZ 169078 *ex* NYSM 49, original no. G 923.

catenatum, Cyclostoma [***Cistula***] **Plate 41, fig. 9**

1842, BJNH, vol. 4, no. 1, back cover (Cuba [J. Bartlett]); 1843, PBSNH, vol. 1, p. 138, long. ½, lat. ⅜ in.; 1862, Otia Conch., p. 183. Measured holotype MCZ 169073 *ex* NYSM 318, original no. A 6268;

3 paratypes MCZ 169083 and paratype USNM 611254 from same NYSM lot.

catulus* 'Agassiz' Gould, *Placobranchus: 1870, Invert. Massachusetts, p. 256, pl. 17, figs. 249–250 (channel near East Boston [Massachusetts], 1848, L. Agassiz), length ¼, breadth 1/10 in.

***caurina, Natica* [*Lunatia*]** **Plate 16, fig. 13**

1847, PBSNH, vol. 2, p. 239 (Straits of [Juan] de Fuca [Washington], Pickering), axis ½, diam. ⅝ in.; 1852, USEE, vol. 12, p. 212, pl. 15, fig. 254,a; 1862, Otia Conch., p. 50, 244. Lectotype MCZ 169081 *ex* NYSM 35, original no. A 3007; 4 paratypes MCZ 169082 and 1 paratype USNM 611261 from same NYSM lot.

caurinus, Pectin: 1850, PBSNH, vol. 3, p. 345 (Port Townsend, Admiralty Inlet, Oregon [Washington]), long. 2¾, lat. 2¼, alt. 1 in.; 1852, USEE, vol. 12, p. 458, pl. 42, fig. 569,a–b; 1862, Otia Conch., p. 95. Lectotype, here selected, USNM 5954, specimen in figure 569.

***cepulla, Succinea* [*Helisaga*]:** 1846, PBSNH, vol. 2, p. 182 (Hawaii), long. ½, lat. 7/20, alt. ⅓ in.; USEE, vol. 12, p. 16, pl. 2, fig. 15,a–b (Hawaii, Sandwich [Hawaiian] Islands, Pickering and Drayton); 1862, Otia Conch., pp. 27, 244. Syntype USNM 5415, smaller than measured type; 8 syntypes MCZ 169114 *ex* NYSM 176, original no. G 2644; 2 syntypes MCZ 39646 and 216754 both lots *ex* Smithsonian Inst. (printed label).

cerea, Helix **Plate 37, fig. 11**

1850, PBSNH, vol. 3, p. 194 (Cape Palmas [Liberia], G. A. Perkins), diam. ¼, alt. ¼ in.; 1862, Otia Conch., p. 207. Lectotype, here selected, MCZ 155994, *ex* C. B. Adams coll. from G. A. Perkins.

***cerealis, Achatinella* [*Leptachatina*]:** 1847, PBSNH, vol. 2, p. 201 (Waianai, Oahu [Hawaiian Islands], Case), long. ⅜, lat. ⅛ in.; 1852, USEE, vol. 12, p. 90, pl. 7, fig. 99,a; 1862, Otia Conch., pp. 35, 244. Figured holotype USNM 5501.

***cerealis, Bulla* [(*Tornatina*)]:** 1853, BJNH, vol. 6, p. 378, pl. 14, fig. 9 (Santa Barbara [California], E. Jewett), length ⅛, breadth 1/12 in.; 1862, Otia Conch., p. 185. Type lot, original no. A 4276 listed as being lost in 1875, 27th Ann. Rep. NYSM., p. 13.

cerebralis, Doris: 1852, USEE, vol. 12, p. 298, pl. 23, fig. 393,a–c (reef in Sandalwood Bay, Feejee [Fiji] Islands), long. 5, lat. 3¾ in.; 1862, Otia Conch., p. 228.

***chalybea, Limnea* [sic]:** 1839, Silliman's Amer. Journ. Sci., scr. 1, vol. 38, p. 196; 1841, Invert. Massachusetts, p. 216, fig. 145 (a muddy pool, Cambridge [Massachusetts]), long. 1/10, lat. 7/20 in. Mentioned as being in Massachusetts State Cabinet 72 but specimen lost, 1862, Otia Conch., p. 180. 12 ideotypes MCZ 169086 *ex* NYSM 301, original no. A 3039, labeled "Ohio."

***Chioraera*, new genus:** 1852, USEE, vol. 12, p. 309. Type species: *Chioraera leonina* Gould, by monotypy; 1862, Otia Conch., p. 230.

cholerica, Neritina: 1847, PBSNH, vol. 2, p. 237 (Fecjee [Fiji] Islands, Drayton), diam. ¾ in.; 1852, USEE, vol. 12, p. 156, pl. 11, fig. 187,a–b; 1862, Otia Conch., pp. 47, 244. Probable figured holotype USNM 5587; 7 paratypes MCZ 87925 *ex* BSNH 3663; 2 paratypes MCZ 216755 *ex* Smithsonian Inst. (printed label).

chlorina, Calyptraea: 1846, PBSNH, vol. 2, p. 161 (Porto Praya [Praia], Cape de Verde Islands), long. ½, lat. $^{6}/_{10}$, alt. ¼ in.; 1852, USEE, vol. 12, p. 380, pl. 32, fig. 487,a–d; 1862, Otia Conch., p. 16. Figured holotype USNM 5877; paratype USNM 612318.

chlorotica* 'Agassiz' Gould, *Elysis: 1870, Invert. Massachusetts, p. 255, pl. 17, figs. 251–255 (found in great numbers in brackish water on the Cambridge [Massachusetts] marshes in the spring of 1848, L. Agassiz), length 1 to 1½ in.

chlorotica, Teredo: 1870, Invert. Massachusetts, p. 33, fig. 360 (from timbers of ships that have cruised in the Pacific); diameters about 3 mm.

chrysocolla, Neritina: 1847, PBSNH, vol. 2, p. 237 (Upolu, Samoa Islands), long. ¾, lat. ⅜ in.; 1852, USEE, vol. 12, p. 158, pl. 11, fig. 188,a; 1862, Otia Conch., pp. 48, 244. 2 syntypes USNM 5588; 18 syntypes MCZ 87927 *ex* BSNH 2442.

***cicercula, Helix* [*Corasia*]:** 1846, PBSNH, vol. 2, p. 171 (mountains of Hawaii, Drayton and Brackenridge), lat. ¼, alt. $^{3}/_{20}$ in.; 1852, USEE, vol. 12, p. 43, pl. 5, fig. 73,a–c; 1862, Otia Conch., pp. 20, 243. Figured holotype USNM 20948; 8 paratypes MCZ 169080 *ex* NYSM 264, original no. A 754.

***ciconia, Anodon*[*ta*]** **Plate 34, fig. 1**

1851, PBSNH, vol. 4, p. 92 (Mexico?, T. P. Green and W. Rich), long. 4, alt. 2⅜, lat. 1¼ in.; 1853, BJNH, vol. 6, p. 402; 1862, Otia Conch., p. 213. Measured holotype MCZ 169084 *ex* NYSM 1025a, original no. A 5660; paratype MCZ 169085 and paratype USNM 611266 *ex* NYSM 1025a, original no. A 5500.

The specimen figured by Sowerby, 1867, *in* Reeve, Conchologia Iconica, vol. 17, *Anodon*, pl. 29, fig. 115, has been examined by the present author and is not a type.

ciliata, Amnicola **Plate 45, fig. 4**

1850, PBSNH, vol. 3, p. 196 (Deea [Gbea or Mano] River, Liberia, on the muddy margins, G. A. Perkins), long. ¼, lat. ⅛ in.; 1862, Otia Conch., p. 209. Lectotype, here selected, Amer. Mus. Nat. Hist. 71067 *ex* J. C. Jay coll. 6850 and 7 paratypes MCZ 225214 *ex* same AMNH lot. Mentioned by Jay, 1852, Catalogue of Shells in the Jay Collections, p. 278.

***ciliatus, Bulimus* [*Orthalicus, Rabdotus*]:** 1846, PBSNH, vol. 2, p. 191 (Organ Mt., Brazil), long. 9/10, lat. 5/10 in.; 1852, USEE, vol. 12, p. 75, pl. 6, fig. 80 (crawling on bushes near the water, Organ Mountains [near Rio de Janeiro], Brazil, Pickering); 1862, Otia Conch., pp. 32, 244.

cincta, Amnicola **Plate 35, fig. 1**

1846, PBSNH, vol. 2, p. 100 (fluv. Tenasserim, Burmah [Burma], F. Mason), long. haud [=approximately] 1/10 in.; 1862, Otia Conch., p. 199. Lectotype, here selected, Amer. Mus. Nat. Hist. 65006 *ex* J. C. Jay coll. 6582; paratype MCZ 225210 *ex* same AMNH lot. Mentioned by Jay, 1852, Catalogue of Shells in the Jay Collection, p. 278.

cincta, Littorina: 1847, PBSNH, vol. 2, p. 252 (Puget Sound [Washington]), axis 5/8, diam. 1/2 in.; 1862, Otia Conch., p. 99. Omitted from report of USEE.

cinctella, Nassa: 1850, PBSNH, vol. 3, p. 154 (Pacific Ocean), long 7/20, lat. 1/5 in.; 1852, USEE, vol. 12, p. 259, pl. 19, fig. 327,a–b; 1862, Otia Conch., p. 69. Figured holotype USNM 5723; paratype MCZ 169458 *ex* NYSM, original no. G 2559; paratype MCZ 216572 *ex* BSNH 471.

***cinerea, Emarginula* [*Tugali*]:** 1846, PBSNH, vol. 2, p. 155 (hab.?), long. 5/8, lat. 4/8, alt. 3/8 in.; 1852, USEE, vol. 12, p. 373, pl. 32, fig. 494,a–c (Feejee [Fiji] Islands); 1862, Otia Conch., p. 13. Figured holotype USNM 5884, paratype MCZ 216611 *ex* Smithsonian Inst.

cingulata, Planaxis **Plate 9, fig. 10**

1861, PBSNH, vol. 7, p. 385 (Ousima [Amami-O-shima, Ryukyu Islands], under stones, at low water mark, W. Stimpson), axis 12, diam. 6 mm.; 1862, Otia Conch., p. 140. Measured holotype USNM 24192, original no. 1556. NPEE.

***cinnamomea, Patella* [*Scutellina*]:** 1846, PBSNH, vol. 2, p. 151 (New South Wales [Australia]), long. 1/2, lat. 3/8, alt. 5/10 in.; 1852, USEE, vol. 12, p. 345, pl. 29, fig. 447,a–d; 1862, Otia Conch., pp. 9, 242. Figured holotype USNM 5837; paratype MCZ 216612 *ex* Smithsonian Inst. (printed label).

circumdata, Chemnitzia: 1861, PBSNH, vol. 7, p. 407 (Sydney Harbor [New South Wales, Australia], W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 151. NPEE.

circumsuta, Ostrea: 1850, PBSNH, vol. 3, p. 346 (Feejee [Fiji] and Samoa Islands), long. 1 1/2, lat. 1 in.; 1852, USEE, vol. 12, p. 462, pl. 43, fig. 576,a–b; 1862, Otia Conch., p. 96. 2 syntypes USNM 5959, each figured.

***circumsutus, Trochus* [*Tectus*]:** 1849, PBSNH, vol. 3, p. 106 (Madagascar?), lat. 7/10, alt. 7/10 in.; 1852, USEE, vol. 12, p. 176, pl. 13, fig. 220,a; 1862, Otia Conch., pp. 57, 245. Figured holotype USNM 5620; paratype USNM 612323, dead specimen.

cistula, Pandora: 1850, PBSNH, vol. 3, p. 217 (East Patagonia [Argentina], long. 1⅛, lat. ½, alt. 1 1/10 in.; 1852, USEE, vol. 12, p. 396, pl. 33, fig. 500,a–b; 1862, Otia Conch., p. 77. Figured holotype USNM 5887.

***cithara, Mangelia* [*Cythara*]:** 1849, PBSNH, vol. 3, p. 140 (Feejee [Fiji] Islands), long. ⅜, lat. 3/10 in.; 1852, USEE, vol. 12, p. 250, pl. 18, fig. 313,a–b; 1862, Otia Conch., pp. 63, 245. Figured holotype USNM 5710.

***citharella, Cyclostoma* [*Japonia*]:** 1859, PBSNH, vol. 6, p. 425 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), diameters ⅛ in.; 1862, Otia Conch., p. 104. Type lot USNM 1916, not located. NPEE.

citrullus, Patella: 1846, PBSNH, vol. 2, p. 149 (Funchal, Madeira), long. 1¾, lat. 1¼, alt. ¼ in.; 1852, USEE, vol. 12, p. 325, pl. 29, fig. 448,a–b: 1862, Otia Conch., p. 8. Figured holotype USNM 5838.

***clathratum, Cyclostoma* [*Chondropoma*]** **Plate 41, fig. 3**
1842, BJNH, vol. 4, no. 1, back cover (Cuba [J. Bartlett]); 1843, PBSNH, vol. 1, p. 138: ". . . is *Cyclostoma rugulosum* Pfeiffer"; 1862, Otia Conch., p. 183. Lectotype, here selecetd, MCZ 169087 *ex* NYSM 329, original no. A 1649, labeled "Socotora Island" [Gulf of Arden]; 3 paratypes MCZ 169088 and paratype USNM 611208 from same NYSM lot.

clathratus, Triformis **Plate 13, fig. 1**
1861, PBSNH, vol. 7, p. 388 (China Seas, W. Stimpson), axis 4, diam. 1.5 mm.; 1862, Otia Conch., p. 144. Type lot USNM 330, under which the following note appears in the catalog: "Broken and worn, probably the same as 245 [*Triformis intercalaris* Gould]." Holotype Redpath Mus. 5240 labeled [USNM] 330 C.S. [China Seas]. NPEE.

clavatum, Dentalium: 1859, PBSNH, vol. 7, p. 166 (Hong Kong [China], not uncommon, W. Stimpson), long. 10, diam. 2 mm.; 1862, Otia Conch., p. 119. Holotype USNM 24245, original no. 550; figured by Pilsbry, 1898, Manual of Conchology, ser. 1, vol. 17, p. 185, pl. 26, figs. 80, 81; paratype MCZ 169089 *ex* NYSM 151, original no. G 2411.

***cognata, Anodon*[*ta*]:** 1850, PBSNH, vol. 3, p. 294 (Nisqually [near present site of Tacoma] and near Fort Vancouver [Washington], Fox), long. 3, alt. 1½, lat. 1 in.; 1852, USEE, vol. 12, p. 435, pl. 38,

fig. 546,a–b; 1862, Otia Conch., pp. 87, 246: ". . . is probably *A. oregonensis* Lea." Figured holotype USNM 5930.

cognata, Rimula (***Puncturella***) [***Cemoria***]: 1852, USEE, vol. 12, p. 371, pl. 31, fig. 478,a–c (Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego], 16 fathoms, J. P. Couthouy), no measurements; 1862, Otia Conch., pp. 226, 243.

colubrinus, Trochus (***Monodonta***) [***Gibbula***]: 1849, PBSNH, vol. 3, p. 107 (Madeira); diam. ⅞, alt. ⅝ in.; 1852, USEE, vol. 12, p. 183, pl. 13, fig. 223,b–d (Funchal, Madeira Island, J. P. Couthouy); 1862, Otia Conch., p. 58. Measured holotype USNM 5623, the figure is enlarged.

columbianus, Limax: 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 43, pl. 66, fig. 1 (Nisqually [near present site of Tacoma, Washington], Case; Discovery Harbor, Puget Sound, Oregon [Washington], Dyes), length 5½ in.; 1852, USEE, vol. 12, p. 3, pl. 1, fig. 1,a–c; 1862, Otia Conch., p. 223.

columellaris, Ampullaria: 1848, PBSNH, vol. 3, p. 74 (Province of Maynas, Peru, J. P. Couthouy), long. 2½, lat. 2 in.; 1852, USEE, vol. 12, p. 128, pl. 9, fig. 147,a; 1862, Otia Conch., p. 51. Figured holotype USNM 5547.

compacta, Kellia **Plate 29, fig. 3**

1861, PBSNH, vol. 8, p. 34 (hab.?), long. 6, lat. 3, alt. 5 mm.; 1862, Otia Conch., p. 173. Half measured holotype USNM 24146, original no. 492. NPEE.

compta, Phasianella: 1855, *in* Blake, Appendix, Prel. Geol. Rep. R.R. Route to Pacific, pp. 22, 25 (San Diego [California], T. H. Webb and W. P. Blake), length 1¼, breadth ⅛ in.; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 333, pl. 11, figs. 25–26; 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 204. 2 syntypes USNM 6190; ideotype MCZ 169112 *ex* NYSM 118, original no. G 2535 from "Santa Barbara, California, E. Jewett," figured by Robertson, 1958, Johnsonia, vol. 3, p. 279, pl. 148, fig. 2; 40 ideotypes MCZ 169113 from same NYSM lot.

compta, Tellina [***Angulus***]: 1850, PBSNH, vol. 3, p. 253 (hab.?), long. ⅝, alt. ⅓, lat. ⅛ in.; 1852, USEE, vol. 12, p. 406, pl. 35, fig. 515,a–b; 1862, Otia Conch., pp. 79, 246: "Loo Choo [Okinawa, Ryukyu Islands]." Syntype USNM 5902; lot also contains two odd valves.

comptus, Chiton (***Leptochiton***) **Plate 22, fig. 1**

1859, PBSNH, vol. 7, p. 163 (Ousima [Amami-O-shima, Ryukyu Islands], Bonin, and Loo Choo [Okinawa, Ryukyu Islands], W.

Stimpson), long. 15, alt. 10 mm.; 1862, Otia Conch., p. 117. Measured holotype USNM 1562; 6 smaller paratypes USNM 24148. NPEE.

comptus, Conus: 1853, BJNH, vol. 6, p. 387, pl. 14, fig. 23 (Santa Barbara [California], E. Jewett), length 1¼, breadth ¾ in.; 1862, Otia Conch., p. 187: ". . . is declared to be a rubbed specimen of a young *Conus purpurascens* Sowerby=*Conus achatinus* Menke."

concentrica, Ervilia **Plate 24, fig. 2**

1862, PBSNH, vol. 8, p. 281 (dredged off coast of North Carolina, Coast Survey), long. 6+, alt. 4, lat. 3 mm.; 1862, Otia Conch., p. 239. Lectotype, here selected, MCZ 169092 *ex* NYSM 357, original no. G 2574; 3 paratypes MCZ 169093 and 1 paratype USNM 611263 from same NYSM lot.

concentrica, Tellina [***Arcopagia***]**:** 1850, PBSNH, vol. 3, p. 253 (Feejee [Fiji] Islands), long. 1⅝, alt. 1⅛, lat. ½ in.; 1852, USEE, vol. 12, p. 404, pl. 36, fig. 519,a–b; 1862, Otia Conch., pp. 8, 246.

concentricum, Lepton **Plate 28, fig. 4**

1861, PBSNH, vol. 8, p. 33 (Sydney Harbor [New South Wales, Australia], W. Stimpson), long. 10, lat. 4—, alt. 7 mm.; 1862, Otia Conch., p. 171. Half measured holotype USNM 24306, original no. 308. NPEE.

concinna, Mangelia: 1860, PBSNH, vol. 7, p. 382 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson, axis 10, diam. 4 mm.; 1862, Otia Conch., p. 137. NPEE.

concinna **'Gould,'** ***Helicina:*** 1875, 27th Ann. Rep. NYSM, p. 52 [nomen nudum].

concinna, Stomatella **Plate 21, fig. 7**

1845, PBSNH, vol. 2, p. 26 (Sandwich [Hawaiian] Islands), long. ⅛, lat. 3/20 in.; 1862, Otia Conch., p. 195. Measured holotype MCZ 169090 *ex* NYSM 144, original no. G 2212; paratype MCZ 169091 and paratype USNM 611219 from same NYSM lot; 2 paratypes MCZ 88089 *ex* BSNH 1325, original no. 25.

concinna, Thracia: 1861, PBSNH, vol. 8, p. 23 (Kagos[h]ima Bay [Japan], W. Stimpson), long. 17, alt. 11, lat. 8 mm.; 1862, Otia Conch., p. 161. Type lot USNM 1314, not found. NPEE.

concinnus, Chiton [(***Leptochiton***)]**:** 1859, PBSNH, vol. 7, p. 164 (Hakodadi [Hakodate, Japan], W. Stimpson), long. 8, lat. 5 mm.; 1862, Otia Conch., p. 117. The measured holotype USNM 2077 is rolled up, and the paratype USNM 24041 has been taken apart.

concordialis, Succinea: 1848, PBSNH, vol. 3, p. 38 (near Lake Concordia [Texas], J. Bartlett), long. ½, lat. ½ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 82, pl. 67a, fig. 2; 1862, Otia

Conch., p. 202. 2 syntypes MCZ 148141 *ex* A. F. Gray coll. from W. G. Binney type coll. in Smithsonian Inst.; 2 syntypes MCZ 65853 *ex* T. Bland coll. from W. G. Binney coll.

confossus, Chiton [***Lucia***]: 1846, PBSNH, vol. 2, p. 143 (Feejee [Fiji] Islands), long. ⅝, lat. ⅜ in.; 1852, USEE, vol. 12, p. 327, pl. 28, fig. 434,a–b; 1862, Otia Conch., p. 52. Figured holotype USNM 30763.

confragosus, Turbo [***Stella***]: 1849, PBSNH, vol. 3, p. 89 (Dean's Island [Rangiroa], Paumoto [Tuamotu] Islands, J. P. Couthouy), lat. 1⅛, alt. ⅞ in.; 1852, USEE, vol. 12, p. 171, pl. 12, fig. 202,a–b; 1862, Otia Conch., pp. 54, 245. Syntype MCZ 216763 *ex* Smithsonian Inst. (printed label).

conica, Partula: 1847, PBSNH, vol. 2, p. 196 (Samoa Islands; Raraka Island [Tuamotu Islands]), long. 1⅒, lat. 1/20 in.; 1852, USEE, vol. 12, p. 81, pl. 6, fig. 88,a (Upolu and Tutuila, Samoan Islands, at an elevation of from 200 to 1500 feet on plantations and on *Dracaena terminalis*, J. P. Couthouy and J. Drayton); 1862, Otia Conch., p. 33. Holotype USNM 5490, refigured by Pilsbry, 1909, Manual of Conchology, ser. 2, vol. 20, p. 265, pl. 31, fig. 8, pl. 32, figs. 1–3.

conica, Patella [***Scurria***]: 1846, PBSNH, vol. 2, p. 151 (Puget Sound [Washington]), long. 1/20, lat. ½, alt. ⅜ in.; 1852, USEE, vol. 12, p. 346, pl. 30, fig. 458,a; 1862, Otia Conch., pp. 9, 242. Figured holotype USNM 5848; 36 paratypes MCZ 169094 *ex* NYSM 156.

consobrina, Cylichna: 1859, PBSNH, vol. 7, p. 141 (west coast of [Island of] Jesso [Yezo=Hokkaido, Japan], L. M. Squires), axis 6, diam. 2 mm.; 1862, Otia Conch., p. 113. NPEE.

convexa, Kellia: 1861, PBSNH, vol. 8, p. 34 (Simon's Bay, [Cape of Good Hope], in sand, 12 fathoms, W. Stimpson), long. 4, lat. 1, alt. 3 mm.; 1862, Otia Conch., p. 173. Lectotype, here selected, USNM 24244, figured by Bartsch, USNM Bull. 91, p. 199, pl. 45, figs. 1, 2; paratype USNM 612331; paratype MCZ 169095 *ex* NYSM 367, original no. G 2509. NPEE.

cophina, Mitra: 1850, PBSNH, vol. 3, p. 171 (Singapore, Pickering), long. 5/10, lat. 3/10 in.; 1852, USEE, vol. 12, p. 271, pl. 20, fig. 355,a; 1862, Otia Conch., p. 72. Figured holotype USNM 5750; 2 paratypes MCZ 169103 *ex* NYSM 27, original no. G 2763; paratype MCZ 216590 *ex* Smithsonian Inst. (printed label).

***Coptocheilus*, new genus:** 1862, PBSNH, vol. 8, p. 282. Designated type species: *Megalomastona altum* Sowerby, 1862, Otia Conch., p. 239.

cornucopia, Carinaria **Plate 19, fig. 2**
1861, PBSNH, vol. 7, p. 408 (taken at sea south of Caroline Islands, W. Stimpson), long. 10, diam. maj. 9, diam. min. 5, cristae alt. 3 mm.; 1862, Otia Conch., p. 152. Holotype USNM 24126, original no. 1506. NPEE.

cornuta, Siphonaria: 1846, PBSNH, vol. 2, p. 153 (Mangsi [Island]); long. 1, lat. 17/20, alt. ⅛ in.; 1852, USEE, vol. 12, p. 357, pl. 30, fig. 467,a–b (Soo Loo [Sulu Sea], Mangsi Island [Strait of Balabac], Pickering); 1862, Otia Conch., p. 11. Figured holotype USNM 5850; 3 paratypes MCZ 88100 *ex* BSNH 3763, original no. 792; 3 paratypes MCZ 216757 *ex* Smithsonian Inst. (printed label).

corolla, Melania [***Amnicola***]**:** 1847, PBSNH, vol. 2, p. 223 (Banks' Peninsula, New Zealand, Pickering and Brackenridge), lat. 3/10, alt. 3/10 in.; 1852, USEE, vol. 12, p. 129, pl. 9, fig. 149,a–c [as *Amnicola corolla*]; 1862, Otia Conch., p. 44. Figured holotype USNM 5549, fig. 149c shows actual size of specimen; paratype USNM 612319; 7 paratypes MCZ 169104 *ex* NYSM 96, original no. G 2700; 2 paratypes 216756 *ex* Smithsonian Inst. (printed label).

coronata, Trichotropis (***Iphinöe***)**:** 1860, PBSNH, vol. 7, p. 324 (Arctic Ocean, Straits of Seniavine, 20 fathoms, mud, W. Stimpson), long. 25, lat. 15 mm.; 1862, Otia Conch., p. 121. NPEE.

corporosa, Melania: 1847, PBSNH, vol. 2, p. 223 (Taheiti [Tahiti], J. P. Couthouy), long. 1½, lat. ½ in.; 1852, USEE, vol. 12, p. 137, pl. 10, fig. 161,a–b; 1862, Otia Conch., pp. 45, 244. Figured holotype USNM 5561; 2 paratypes MCZ 169096 *ex* NYSM 61, original no. G 2578; 2 paratypes MCZ 78591 *ex* BSNH 3089.

corpulenta, Peronia: 1852, USEE, vol. 12, p. 293, pl. 22, fig. 385,a (Direction Island, Feejee [Fiji] Islands), long. 2½, lat. 1, alt. ½ in.; 1862, Otia Conch., p. 226.

corrugatum **Carpenter, *Crucibulum:*** 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 204 (Mazatlan [Mexico], E. Jewett). One specimen was found.

coruscus, Mytilus **Plate 28, fig. 6**
1861, PBSNH, vol. 8, p. 38 (Hakodadi [Hakodate] Bay [Japan], common on rocks between tide marks, W. Stimpson), long. 65, alt. 38, lat. 25 mm.; 1862, Otia Conch., p. 177. Measured holotype MCZ 169438 *ex* NYSM 369, original no. G 2525; paratype MCZ 169439 and paratype USNM 611202 *ex* NYSM 370, original no. G 2456. NPEE.

coruscus, Unio **Plate 32, fig. 3**
1856, PBSNH, vol. 6, p. 15 (River Saint John's, near Lake Beresford, Florida, Henry Bryant), long. 1⅜, alt. ⅞, lat. ⅝ in.; 1862,

Otia Conch., p. 222. Measured holotype MCZ 169097 *ex* NYSM 502, original no. A 5190, figured by Frierson, 1911, Nautilus, vol. 25, pl. 1, figs. 1–3; paratype MCZ 169098 and paratype USNM 611262 from same NYSM lot.

crassa, Nerita: 1852, USEE, vol. 12, p. 166, pl. 11, fig. 195,a (hab.?), diam. 1, axis ¾ in.; 1862, Otia Conch., p. 225. Figured holotype USNM 5595.

craticulatum, Bittium **Plate 12, fig. 12**

1861, PBSNH, vol. 7, p. 387 (Hong Kong [China], laminarian zone, W. Stimpson), axis 6, diam. 2 mm.; 1862, Otia Conch., p. 141. Lectotype, here selected, MCZ 169100 *ex* NYSM 57, original no. 2471, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 569, pl. 50, figs. 20, 21; 5 paratypes MCZ 169101 and 1 paratype USNM 611209 all from same NYSM lot; "Paratype (?)" USNM 24165, original no. 2024. NPEE.

craticulatus, Chiton [(***Leptochiton***)]: 1859, PBSNH, vol. 7, p. 164 (China Seas, probably Simoda [Shimoda, Japan]), long. 30, lat. 20 mm.; 1862, Otia Conch., p. 117. Holotype USNM 24106. A plate is figured by Pilsbry, 1893, Manual of Conchology, ser. 1, vol. 15, p. 84, pl. 17, figs. 62, 63. NPEE.

cratitia, Fissurella [***Glyphis***]: 1846, PBSNH, vol. 2, p. 155 (Puget Sound [Washington], Pickering), long. 2, lat. 1⅝, alt. ½ in.; 1852, USEE, vol. 12, p. 367, pl. 31, fig. 471,a–b; 1862, Otia Conch., pp. 13, 243: " . . . is *F. aspersa* Eschscholtz 1833." Figured holotype USNM 4571.

cratitia, Tellina (***Arcopagia***): 1861, PBSNH, vol. 8, p. 29 (Loo Choo [Okinawa, Ryukyu Islands], sandy bottom, 8 fathoms, W. Stimpson), long. 15, alt. 11, lat. 5 mm.; 1862, Otia Conch., p. 168. NPEE.

crenulata, Kellia: 1861, PBSNH, vol. 8, p. 33 (Hong Kong Harbor [China], W. Stimpson), long. 9.5, alt. 6.5, lat. 4 mm.; 1862, Otia Conch., p. 172: "Only one valve found." NPEE.

cressida, Helix [***Trochomorpha***]: 1846, PBSNH, vol. 2, p. 176 (Samoa and Taheiti [Tahiti]), lat. 7/10, alt. ¼ in.; 1852, USEE, vol. 12, p. 57, pl. 4, fig. 56,a–c (Society and Samoan Islands, J. P. Couthouy); 1862, Otia Conch., pp. 23, 243. Syntype USNM 5458, smaller than measured type; 4 syntypes MCZ 156370 *ex* Smithsonian Inst. (printed label).

cribraria **'Gould' Carpenter,** ***Acmaea:*** 1864, Rep. British Assn. Adv. Sci. 1863, p. 530 [nomen nudum].

crispata, Haliotis: 1847, PBSNH, vol. 2, p. 251 (with New Holland [Australian] shells), long. 1⅜, lat. ⅞ in.; 1852, USEE, vol. 12, p. 208, pl. 14, fig. 248,a; 1862, Otia Conch., p. 98.

crispata, Unio **Plate 32, fig. 3**
1843, PBSNH, vol. 1, p. 141 ([Tavoy,] British Burmah [Burma], F. Mason), long 1$\frac{7}{10}$, alt. $\frac{9}{10}$, lat. ½ in.; 1862, Otia Conch., p. 98. Half lectotype, here selected, MCZ 169099 *ex* NYSM 92, original no. A 6410.

***crispus* 'Couthouy' Gould, *Fusus* [*Trophon*]:** 1849, PBSNH, vol. 3, p. 141 (dredged at Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego], 16 fathoms), long. ⅞, lat. $\frac{9}{20}$ in.; 1852, USEE, vol. 12, p. 229, pl. 16, fig. 279,a–c; 1862, Otia Conch., pp. 64, 245. Measured holotype USNM 5677, figures slightly enlarged and fig. 279b a poor representation; paratype MCZ 216588 *ex* Smithsonian Inst. (printed label).

***Crithe*, new genus:** 1860, PBSNH, vol. 7, p. 384. Type species: *Cerithe atomaria* Gould, by monotypy. 1862, Otia Conch., p. 138. NPEE.

crocata, Succinea: 1846, PBSNH, vol. 2, p. 138 (Upolu [Island, Samoa]), long. ⅝, lat. ½ in.; 1852, USEE, vol. 12, p. 28, pl. 2, fig. 21, a–b (Upolu and other islands of the Navigator [Samoa] Group, elevation of 1,200 feet); 1862, Otia Conch., p. 29. Figured holotype USNM 5421; 10 paratypes MCZ 169102 *ex* NYSM 171, original no. G 2637; 8 paratypes MCZ 39642 *ex* Smithsonian Inst. (printed label).

crocatus, Donax: 1850, PBSNH, vol. 3, p. 255 (Mangsi [Island, Strait of Balabac]), long. ⅖, alt. ¼, lat. $\frac{3}{20}$ in.; 1852, USEE, vol. 12, p. 412; 1856, ibid. Addenda and Corrigenda, p. 508: "Specimens lost and therefore not engraved"; 1862, Otia Conch., p. 82.

***croceum, Amphidesma* [*Semele*]:** 1850, PBSNH, vol. 3, p. 218 (Callao ? [Peru]), long. 3½, alt. 3¼, lat. 1¼ in.; 1852, USEE, vol. 12, p. 399, pl. 35, fig. 512,a; 1862, Otia Conch., pp. 78, 245. Figured holotype USNM 5899.

cruciata, Fissurella: 1846, PBSNH, vol. 2, p. 156 (Sooloo [Sulu] Sea), long. ⅖, lat. ¼, alt. ⅛ in.; 1852, USEE, vol. 12, p. 365, pl. 31, fig. 474,a–b; 1862, Otia Conch., pp. 13, 243. Figured holotype USNM 5864.

cruciata* 'A. Agassiz' Gould, *Hermaea: 1870, Invert. Massachusetts, p. 253, pl. 17, fig. 256 (Naushon Island [Massachusetts], A. Agassiz, 1863), no measurements. "Only one specimen found."

cruentatum, Cardium: 1855, *in* Blake, Appendix, Prel. Geol. Rep. R.R. Route to Pacific, pp. 22, 26 (San Pedro [California], W. P. Blake) height and length ⅝, breadth ⅜ in.; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 334, pl. 11, figs. 21–22; 1856 [1857], Gould and Carpenter, Proc. Zool. Soc. London, p. 201.

cryptoportica, Helix [***Corasia***]: 1846, PBSNH, vol. 2, p. 171 (hab.? [Hawaii]); 1852, USEE, vol. 12, p. 44, pl. 5, fig. 72,a–c (mountains of Oahu, Sandwich [Hawaiian] Islands); diam. ¼, axis ⅛ in.; 1862, Otia Conch., pp. 20, 243. Figured holotype USNM 5474; 2 paratypes MCZ 169110 *ex* NYSM 233, original no. A 747.

crystallina, Pileopsis [***Scutellina***]: 1846, PBSNH, vol. 2, p. 161 (Feejee [Fiji] Islands), long. ½, lat. ⅜, alt. ¼ in.; 1852, USEE, vol. 12, p. 382, pl. 32, fig. 489,a–b (locality doubtful); 1862, Otia Conch., p. 16. Figured holotype USNM 5879.

cucullata, Cyclostoma [***Cyclophorus***] **Plate 41, fig. 5**
1856, PBSNH, vol. 6, p. 14 (an island in the Mergui Archipelago, [Burma], J. Benjamin), false lip 7/10, hood lip ¼, axis ⅝ in. Measured holotype MCZ 169108 *ex* NYSM 321, original no. A 1672; paratype MCZ 169109 from same NYSM lot.

cucullata, Limacina (?) [***Agadina***]: 1852, USEE, vol. 12, p. 486, pl. 51, fig. 601,a–b (an ice island, within twenty miles of the Antarctic Continent, lat. 66° S., long. 106°20′ E.), diam. about ¼ in.; 1862, Otia Conch., p. 234.

cucullata, Rimula [***Cemoria***]: 1846, PBSNH, vol. 2, p. 159 (Puget Sound [Washington], brought up on the anchor), long. ⅝, lat. 7/16, alt. ⅜ in.; 1852, USEE vol. 12, p. 368, pl. 31, fig. 475,a–c; 1862, Otia Conch., pp. 14, 243. Measured holotype USNM 4325, figure slightly enlarged; paratype USNM 612305.

Cucurbitula, **new genus:** 1861, PBSNH, vol. 7, p. 22. Type species: *Chaena lagenula* Gould, by monotypy. 1862, Otia Conch., p. 161.

culcitella, Bulla [(***Akera***)]: 1853, BJNH, vol. 6, p. 377, pl. 14, fig. 8 (Santa Barbara [California], E. Jewett), length 1, breadth ¼ in.; 1862, Otia Conch., p. 184. 2 specimens USNM 15797 *ex* E. Jewett, labeled "Monterey, California."

cultrata **'Gould' Simpson,** ***Anodonta:*** 1900, Proc. USNM, vol. 22, p. 644 [nomen nudum]. Listed as a synonym of *Anodonta grandis benedictensis* Lea.

cultrata, Helix [***Corasia***]: 1846, PBSNH, vol. 2, p. 172 (Taheiti [Tahiti] and Eimeo [Moorea], Society Islands, J. P. Couthouy), lat. 7/10, alt. 1/10 in.; 1852, USEE, vol. 12, p. 46, pl. 4, fig. 59,a–c; 1856, ibid., Addenda and Corrigenda, p. 501; 1862, Otia Conch., pp. 20, 243. Figured holotype USNM 20953; paratype MCZ 169111 *ex* NYSM 250, original no. A782.

cultrata, Thracia: 1861, PBSNH, vol. 8, p. 23 (Port Jackson [New South Wales, Australia], sandy mud, 8–15 fathoms, W. Stimpson, long. 8, alt. 6, lat. 4 mm.; 1862, Otia Conch., p. 161. NPEE.

cuneata, Modiolaria: 1861, PBSNH, vol. 8, p. 38 (False Bay, Cape of Good Hope, at low water mark, imbedded in the test of a large ascidian, sometimes a dozen in an individual, also among rocks, 20 fathoms, W. Stimpson), long. 12, alt. et lat. 7 mm.; 1862, Otia Conch., p. 176. Lectotype, here selected, USNM 126 figured by Bartsch, 1915, USNM Bull. 91, p. 198, pl. 42, figs. 5, 6.

cuneola, Mactra [Spisula]: 1850, PBSNH, vol. 3, p. 216 (Callao [Peru]), long. ⅝, alt. ½, lat. 3/10 in.; 1852, USEE, vol. 12, p. 390, pl. 504,a–b; 1862, Otia Conch., p. 75. Measured holotype USNM 5891, figure slightly enlarged.

cunicula, Atlanta: 1852, USEE, vol. 12, p. 492, pl. 51, fig. 598,a–c (lat. 28° N., long. 178° E., to the westward of the Sandwich [Hawaiian] Islands, Dana), no measurements; 1862, Otia Conch., p. 235.

cuprea, Modiolaria **Plate 27, fig. 4**

1861, PBSNH, vol. 8, p. 37, (Kagos[h]ima Bay [Japan], W. Stimpson), long. 7, lat. 4, alt. 4.5 mm. in.; 1862, Otia Conch., p. 175: "Only a single not very fresh specimen found." Holotype USNM 24066. NPEE.

curta, Mactra solidissima **Plate 26, fig. 3**

1870, Invert. Massachusetts, p. 75 (Grand Manan Island [New Brunswick, Canada], W. Stimpson), length 3⅜, height 2½, breadth 1½ in. Measured holotype MCZ 225314 *ex* BSNH 9065; paratype MCZ 225286.

curta, Nassa: 1850, PBSNH, vol. 3, p. 153 (Samoa Islands), long. 2/10, lat. 2/10 in.; 1852, USEE, vol. 12, p. 258, pl. 19, fig. 326,a–c; 1862, Otia Conch., p. 69. 2 syntypes USNM 5722; syntype MCZ 169107 *ex* NYSM 20, original no. G 2560; 4 syntypes MCZ 216595 *ex* Smithsonian Inst. (printed label).

curta, Nassaria: 1860, PBSNH, vol. 7, p. 328 (Port Jackson [New South Wales, Australia], W. Stimpson), axis 10, diam. 6 mm.; 1862, Otia Conch., p. 125. NPEE. Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 317, did not find this species in any of the collections he visited.

curtina, Chrysallida: 1862, PBSNH, vol. 8, p. 280 (South Carolina), long. 5, lat. 2 mm.; 1862, Otia Conch., p. 237.

curvidens, Pupa: 1841, Invert. Massachusetts, p. 189, fig. 120 (under loose stone on ledges at Phillip's Point, Lynn [Massachusetts], near the Ocean House), length 1/15, breadth 1/30 in.; mentioned as being in Massachusetts State Cabinet 89 and BSNH 2396, but both specimens lost; not in 1862, Otia Conch.; 1870, Invert. Massachusetts, p. 434, as a synonym of *Pupa pentodon* Say. 4 ideotypes MCZ 169106 *ex* NYSM 214, original no. A 5793, labeled "Chelsea Beach Island, Massachusetts."

cuspidata, Leda **Plate 23, fig. 4**

1861, PBSNH, vol. 8, p. 37 (Hong Kong Harbor [China], in mud, 8 fathoms, W. Stimpson), long. 7, alt. 4, lat. 3 mm.; 1862, Otia Conch., p. 175. Lectotype, here selected, Redpath Mus. 16265 labeled "Hong Kong" from Smithsonian Inst. (printed label). NPEE.

cyanella **'Couthouy' Gould, *Eolis:*** 1852, USEE, vol. 12, p. 306, pl. 25, fig. 402,a–c (on a fragment of *Megacystus*, off the coast of Chili, lat. 36°5′; long. 74° W., Mr. North), length ⅝ in., not in 1862, Otia Conch.

cybele, Melania [***Tiara***]: 1847, PBSNH, vol. 2, p. 222 (Feejees [Fiji Islands], Navigators [Samoan Islands], etc.), long. 1, lat. ⅝ in.; 1852, USEE, vol. 12, p. 132, pl. 9, fig. 154,a–c (Feejee [Fiji] and Samoa Islands, Couthouy and Drayton); 1862, Otia Conch., pp. 44, 244. 14 syntypes USNM 45330; 6 syntypes MCZ 169105 *ex* NYSM 78, original no. A 6755; 9 syntypes MCZ 78580 *ex* BSNH 3040.

cymbiola, Lottia [***Tectura***]: 1846, PBSNH, vol. 2, p. 151 (Bay of Valparaiso [Chile]), long. 7/10, lat. 7/10, alt. 3/10 in.; 1852 USEE, vol. 12, p. 350, pl. 29, fig. 453,a–c; 1862, Otia Conch., p. 10. Figured holotype USNM 5843; 12 paratypes MCZ 38843 *ex* BSNH 3026, from J. P. Couthouy; 7 paratypes MCZ 216623 *ex* Smithsonian Inst. (printed label).

daedalea, Helix [***Pitys***]: 1846, PBSNH, vol. 2, p. 173 (Matea Island), alt. 1/20, lat. 1/10 in.; 1852, USEE, vol. 12, p. 54, pl. 4, fig. 51, a–d (Aurora or Metia [Makatea Island, Tuamotu Islands]; also Tahiti [Society Islands]); 1862, Otia Conch., pp. 21, 243. Syntype MCZ 169115 *ex* NYSM 235, original no. G2624 from the former locality. The lip is badly broken.

damascenus, Helix **Plate 36, fig. 2**

1856, PBSNH, vol. 6, p. 11 (desert region east of California, Cabinet of W. Newcomb), axis ½, diam. 7/10 in.; 1862, Otia Conch., p. 219: ". . . is *H. pandorae* Forbes." Lectotype, here selected, Cornell Univ. Paleo. Dept. 27244. *ex* W. Newcomb coll. The lot also contains a paratype.

debilis, Assiminea **Plate 12, fig. 7**

1859, PBSNH, vol. 7, p. 41 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), alt. 7/40, diam. 5/40 in.; 1862, Otia Conch., p. 107. Measured holotype USNM 975; 5 paratypes MCZ 169116 *ex* NYSM 335, original no. G2445.

debilis, Bulla [***Diaphana***]: 1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 196; 1841, Invert. Massachusetts, p. 164, fig. 95 (fishes taken in Massachusetts Bay), long. 5/10, lat. 1/10 in.; mentioned

as being in Massachusetts State Cabinet 112 and BSNH 2388, but both specimens lost; 1862, Otia Conch., p. 119; 1870, Invert. Massachusetts, p. 216, fig. 507. 8 probable syntypes MCZ 216760 *ex* C. B. Adams coll. labeled "Massachusetts."

debilis, Cyrena [***Corbicula***]: 1850, PBSNH, vol. 3, p. 293 (New Holland? [Australia]), long. 5/10, alt. 4/10, lat. ¼ in.; 1852, USEE, vol. 12, p. 427, pl. 36, fig. 529,a–b (New Holland [Australia], Upper Hunter River—this locality may be erroneous because of an accidental mixture of specimens); 1862, Otia Conch., pp. 86, 246.

debilis, Mactra: 1850, PBSNH, vol. 3, p. 348 (Singapore), long. 1⅝, alt. 1, lat. ½ in.; 1852, USEE, vol. 12, p. 394; 1856, ibid., Addenda and Corrigenda, p. 508: "The specimen was accidently crushed, and the figure necessarily omitted"; 1862, Otia Conch., p. 98.

debilis, Sigaretus: 1853, BJNH, vol. 6, p. 379, pl. 14, fig. 17 (Gulf of California, La Paz [Lower California], T. P. Green), short diam. not quite ½, height ⅛ in.; 1862, Otia Conch., p. 185. Measured holotype MCZ 169117 *ex* NYSM 36, original no. A3078.

debilis, Solercurtus: 1861, PBSNH, vol. 8, p. 26 (Port Lloyd [Bonin Islands], and Loo Choo [Okinawa, Ryukyu Islands], Capt. Rogers), long. 25, lat. 5, alt. 7 mm.; 1862, Otia Conch., p. 164. NPEE.

decolor, Columbella **Plate 14, fig. 8**

1860, PBSNH, vol. 7, p. 336 (Loo Choo [Okinawa, Ryukyu Islands]), axis 9, diam. 4 mm.; 1862, Otia Conch., p. 132. Measured holotype USNM 24193, original no. 1132. NPEE.

decolorata, Stomatella: 1848, PBSNH, vol. 3, p. 73 (Mangsi Island [Strait of Balabac], Pickering), long. ⅞, lat. ⅝, alt. ⅜ in.; 1852, USEE, vol. 12, p. 210, pl. 15, fig. 250,a–b; 1862, Otia Conch., p. 5.

decora, Pupa [***Vertigo***]: 1847, PBSNH, vol. 2, p. 263, text fig. (Lake Superior region, T. R. Dutton), long. 1/10, lat. 1/20 in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 327, pl. 71, fig. 3; 1862, Otia Conch., p. 202; 1870, Invert. Massachusetts, p. 435, fig. 695.

decussata, Litiopa: 1848, PBSNH, vol. 3, p. 75 (floating bamboo, lat. 37°40′ N., long. 54°30′ W., J. P. Couthouy), long. 3/40, lat. 1/40 in.; 1852, USEE, vol. 12, p. 195, pl. 15, fig. 252,a; 1862, Otia Conch., p. 52.

decussata, Pedicularia **Plate 36, fig. 1**

1855, PBSNH, vol. 5, p. 126 (off Georgia coast, 400 fathoms, Coast Survey), length 1/6, breadth ⅛ in.; 1862, Otia Conch., p. 215. Measured holotype MCZ 169118 *ex* NYSM 54; original no. G 2618; 2 paratypes MCZ 169119 and paratype USNM 611269 from same NYSM lot.

dejecta, Helix: 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, pp. 47, 49, 51 [nomen nudum]. Not *Helix dejecta* Petit 1842 is *Helix divesta* Gould; see under *abjecta, Helix.*

deluta, Daphnella **Plate 10, fig. 9**

1860, PBSNH, vol. 7, p. 339 (China Seas, W. Stimpson), axis 20, diam. 5 mm.; 1862, Otia Conch., p. 135. Lectotype, here selected, USNM 24225, original no. 316, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 577, pl. 51, figs. 26, 27; paratype MCZ 169120 *ex* NYSM 4, original no. G 2495. NPEE.

deluta, Mactra: 1850, PBSNH, vol. 3, p. 215, (New Zealand), long. 1⅞, alt. 1⅝, lat. 1$\frac{1}{10}$ in.; 1852, USEE, vol. 12, p. 391, pl. 33, fig. 503,a–b; 1862, Otia Conch., p. 75. Figured holotype USNM 5890.

dempsta, Mangelia: 1860, PBSNH, vol. 7, p. 340 (China Seas, W. Stimpson), axis 3, diam. 1 mm.; 1862 Otia Conch., p. 137. Type USNM 380 not located. NPEE.

dentatus, Planorbis **Plate 44, fig. 8**

1844, BJNH, vol. 4, p. 496, pl. 24, fig. 14 (small lagoon at San Jorge [Cuba]), diam. $\frac{3}{20}$, height $\frac{1}{20}$ in.; 1862, Otia Conch., p. 192. Lectotype, here selected, MCZ 169121 *ex* NYSM 310, original no. A 6291; 14 paratypes MCZ 169122 and 2 paratypes USNM 611255 from same NYSM lot.

denticulata, Ringicula **Plate 15, fig. 8**

1860, PBSNH, vol. 7, p. 324 (Port Jackson, New South Wales [Australia], W. Stimpson), axis 5, diam. 3.5 mm.; 1862, Otia Conch., p. 121. Measured holotype USNM 471; 4 probable paratypes in British Museum (Nat. Hist.) mentioned by Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 336.

dentiens, Chiton [***Onythochiton***]**:** 1846, PBSNH, vol. 2, p. 145 (Puget Sound [Washington]), long. ⅕, lat. $\frac{3}{20}$ in.; 1852, USEE, vol. 12, p. 321, pl. 28, fig. 433,a–b; 1862, Otia Conch., pp. 6, 242. Possible figured holotype USNM 5824; lot also contains some loose plates.

dermestina, Nassa **Plate 16, fig. 1**

1860, PBSNH, vol. 7, p. 331 (Kikaia [Kikaigashima, Ryukyu Islands], W. Stimpson), axis 8, diam. 4 mm.; 1862, Otia Conch., p. 128. Measured holotype USNM 24166, original no. 1535. Paratype MCZ 169123 *ex* NYSM 12, original A4696.

devia, Helix **Plate 37, fig. 10**

1846, PBSNH, vol. 2, p. 165 (Oregon), lat. ⅕, alt. $\frac{3}{20}$ in.; 1852, USEE, vol. 12, p. 69, pl. 5, fig. 74,a–b (Puget Sound, Oregon [Washington], Drayton); 1856, ibid., Addenda and Corrigenda, p. 501; 1862, Otia Conch., pp. 17, 243. Lectotype, here selected, MCZ 169124 *ex* NYSM 252, original no. A5346.

diademata* 'Agassiz' Gould, *Doris: 1870, Invert. Massachusetts, p. 230, pl. 21, figs. 298, 300–304 (Boston and Beverly Harbors [Massachusetts], L. Agassiz), length 1½, breadth nearly 1 in.

diaphana* 'Couthouy' Gould, *Bulla: 1852, USEE, vol. 12, p. 222, pl. 15, fig. 265,a–d (drawn up in shrimp nets near the mouth of the harbor of Rio de Janeiro [Brazil]); length ¾ in.; not in 1862, Otia Conch.

***diatretum, Cyclostoma* [*Cyclotus*]:** 1847, PBSNH, vol. 2, p. 205 (Sandalwood Bay [Vanua Levu Island], Feejee [Fiji] Islands, Drayton), lat. ⅜, alt. ⅛ in.; 1852, USEE, vol. 12, p. 105, pl. 8, fig. 124,a–b; 1862, Otia Conch., p. 38. Measured holotype USNM 5525, figured slightly enlarged.

dilatatus, Planorbis: 1841, Invert. Massachusetts, p. 210, fig. 140 (Nantucket, J. M. Earle; Hingham [Massachusetts], in small pool, southeast of Old Colony House, T. J. Whittemore), diam. 3/20, axis 1/20 in. Mentioned as being in Massachusetts State Cabinet 75 and BSNH 2399 but both specimens lost; 1862, Otia Conch., p. 182; 1870, Invert. Massachusetts, p. 498, fig. 748. 3 syntypes MCZ 225216 *ex* C. B. Adams coll. labeled "Hingham, Mass."

dilecta, Gena **Plate 20, fig. 9**

1859, PBSNH, vol. 7, p. 44 (Hakodadi [Hakodate] Bay [Japan], on shells, etc., W. Stimpson), long. 8, lat. 4 mm.; 1862, Otia Conch., p. 109. Measured holotype USNM 1695; paratype USNM 24130; paratype MCZ 169549 *ex* NYSM, reduced to fragments; paratype Redpath Mus. 1747 *ex* Smithsonian Inst. NPEE.

dilecta, Gouldia **Plate 29, fig. 4**

1861, PBSNH, vol. 8, p. 32 (Kagos[h]ima [Japan], W. Stimpson, long. et alt. 4, lat. 2 mm.; 1862, Otia Conch., p. 170. Half measured holotype USNM 64077, original no. 1694. NPEE.

***dilecta, Natica* [*Neverita*]:** 1848, PBSNH, vol. 3, p. 73 (hab.?), long. ⅝, lat. ⅝ in.; 1852, USEE, vol. 12, p. 213, pl. 15, fig. 255,a (probably obtained at mouth of Rio Negro, Patagonia [Argentina]); 1862, Otia Conch., pp. 50, 244.

dilectus, Conus: 1850, PBSNH, vol. 3, p. 172 (Feejee [Fiji] Islands), long. ½, lat. ¼ in.; 1852, USEE, vol. 12, p. 286, pl. 21, fig. 367,a; 1862, Otia Conch., p. 73 Figured holotype USNM 5762.

discoidea, Ostrea: 1850, PBSNH, vol. 3, p. 347 (hab.?), long. 1½, lat. 2 in.; 1852, USEE, vol. 12, p. 463, pl. 44, fig. 578,a–b; 1856, ibid., Addenda and Corrigenda, p. 509: "By some chance a wrong shell seems to have been figured at 578"; 1862, Otia Conch., p. 97. Figured holotype USNM 5961, fig. 578a–b; paratype MCZ 178589 *ex* BSNH 8528 (variety); paratype MCZ 178594 *ex* Smithsonian Inst. (printed label).

dispar* 'Gould' Carpenter, *Venus: 1857, Rep. British Assn. Adv. Sci. 1856 [nomen nudum] (Santa Barbara and San Diego [California]). Listed as a synonym of *Venus staminea* Conrad.

divalis, Bithynia: 1859, PBSNH, vol. 7, p. 41 (China, vicinity of Canton, Mr. Bowring), axis 5/10, diam. 3/20 in.; 1862, Otia Conch., p. 107. NPEE.

divaricata, Montacuta: 1861, PBSNH, vol. 8, p. 35 (Hakodadi [Hakodate], Japan, on the spines of a *Spatangus*, W. Stimpson), no measurements; 1862, Otia Conch., p. 173. NPEE.

***divaricatus, Mytilus* [*Aulacomya*]:** 1850, PBSNH, vol. 3, p. 344 (China Seas), long. 1 5/10, alt. 5/10, lat. 3/4 in.; 1852, USEE, vol. 12, p. 449, pl. 41, fig. 565,a; 1862, Otia Conch., p. 94. Syntype USNM 17974; 2 syntypes Redpath Mus. 107. See Palmer, 1950, Journ. de Conch., vol. 90, p. 191, pl. 1, figs. 2, 3, 6.

divesta, Helix: 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 358. New name for *Helix abjecta* and *dejecta* Gould. See under *abjecta, Helix.*

dolabrata, Mysia: 1861, PBSNH, vol. 8, p. 32 (Simon's Bay, Cape of Good Hope, W. Stimpson), long. 10, alt. 10, lat. 4 mm.; 1862, Otia Conch., p. 171. NPEE.

dolaris, Paludina: 1843, PBSNH, vol. 1, p. 144 ([Tavoy,] British Burmah [Burma], F. Mason), long. 1 1/10 [*sic*], 5/10 in.; 1862, Otia Conch., p. 191. 20 probable syntypes marked "?", MCZ 169128 *ex* NYSM 98.

doliaris, Ringicula **Plate 15, fig. 7**

1860, PBSNH, vol. 7, p. 325 (Hakodadi [Hakodate] Bay [Japan], 6 fathoms, sandy mud, W. Stimpson), axis 5, diam. 3 mm.; 1862, Otia Conch., p. 121. Probable holotype USNM 1692, marked "? Type," mentioned by Bartsch, 1915, USNM Bull. 91, p. 7; figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 578, pl. 51, figs. 35, 36. 4 probable paratypes in British Mus. (Nat. Hist.) mentioned by Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 336. NPEE.

dolorosa, Melania **Plate 35, fig. 6**

1859, PBSNH, vol. 7, p. 42 (in streams near Hakodadi [Hakodate, Japan], Wright), long. 3/4, lat. 1/4 in.; 1862, Otia Conch., p. 108. Measured holotype USNM 1663; paratype USNM 611835 from same lot; 5 paratypes MCZ 169125 *ex* NYSM 71, original no. G 2394; 2 paratypes MCZ 74110 *ex* Smithsonian Inst. (printed label); 2 paratypes MCZ 78594 *ex* BSNH 3091; 2 paratypes Redpath Mus. 4263 *ex* Smithsonian Inst. NPEE.

***dorsalis, Doris (Goniodoris)*:** 1852, USEE, vol. 12, p. 304, pl. 25, fig. 400,a–c (on shells of *Perna*, harbor of Talao, Eimeo [Moorea, Society Islands], J. P. Couthouy), long. ¾, lat. ⅜, alt. 1/12 in.; 1862, Otia Conch., p. 229.

dorsuosa, Acmaea **Plate 19, figs. 6, 9**

1859, PBSNH, vol. 7, p. 162 (Hakodadi [Hakodate, Japan], on rocks of 2nd and 3rd laminarian zone), long. 20, lat. 15, alt. 10 mm.; 1862, Otia Conch., p. 115. A type was figured by Pilsbry, 1891, Manual of Conchology, ser. 1, vol. 13, p. 45, pl. 33, figs. 88–90, which was larger than any found in USNM; lectotype, here selected, USNM 1631; paratype USNM 611832 from same lot. NPEE.

***dorsuosa, Columbella* [(*Anachis*)]** **Plate 8, fig. 4**

1860, PBSNH, vol. 7, p. 333 (Hong Kong [China], W. Stimpson), axis 7, lat. 3 mm.; 1862, Otia Conch., p. 130. Probable holotype, here selected, lectotype USNM 14191, original no. 495, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 575, pl. 51, figs. 21, 22. NPEE.

dorsuosus, Modulus **Plate 4, fig. 1**

1853, BJNH, vol. 6, p. 383 (Acapulco [Mexico], E. Jewett), diameters transverse ½, vertical nearly ⅓ in.; not in 1862, Otia Conch. Measured holotype MCZ 169126 *ex* NYSM 88; paratype MCZ 169127 from same lot; 8 paratypes MCZ 216761 *ex* Smithsonian Inst. (printed label) labeled "Acapulco, E. Jewett."

dorsuosus, Unio: 1850, PBSNH, vol. 3, p. 296 (Eastern Asia?), long. 1½, alt. ⅞, lat. ½ in.; 1852, USEE, vol. 12, p. 430, pl. 37, fig. 540,a–b (marked Feejee [Fiji] Islands, probably by accident); 1856, ibid., Addenda and Corrigenda, p. 508: " . . . is *Unio nepeanensis* Conrad"; 1862, Otia Conch., pp. 89, 246. Figured holotype USNM 5925, refigured by McMichael and Hiscock, 1958, Australian Journ. of Marine and Freshwater Research, vol. 9, p. 441, pl. 9, figs. 16–18, and the type locality restricted to Nepean River, New South Wales, Australia.

duplicata, Semele: 1861, PBSNH, vol. 8, p. 27 (Kagos[h]ima Bay [Japan], in 6 fathoms, sandy bottom, W. Stimpson), long. 20, alt. 16, lat. 6 mm.; 1862, Otia Conch., p. 166. Not Sowerby 1841 is *Semele zebuensis* Hanley 1844. Type lot USNM 1411, not located. NPEE.

eborea, Drillia: 1860, PBSNH, vol. 7, p. 337 (Kikaia [Kikaigashima, Ryukyu Islands], W. Stimpson); 1862, Otia Conch., p. 133. NPEE.

echinata, Rimula: 1859, PBSNH, vol. 7, p. 163 (Gaspé [Gaspar] Straits [east of Sumatra]), long. 9, lat. 7, alt. 4 mm.; 1862, Otia Conch., p. 116. NPEE.

effusa, Dunkeria **Plate 7, fig. 8**
1861, PBSNH, vol. 7, p. 407 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 6, lat. 1+mm.; 1862, Otia Conch, p. 151. Lectotype, here selected, USNM 980; paratype USNM 612329. NPEE.

egena, Amnicola: PBSNH, vol. 3, p. 75 (Banks' Peninsula, New Zealand, Pickering), long. ⅛, lat. 1/10 in.; 1852, USEE, vol. 12, p. 127, pl. 9, fig. 151,a–b [published by error as *Amnicola gracilis* Gould]; 1862, Otia Conch., pp. 52, 245. Presumed figured holotype USNM 5551; 90 paratypes MCZ 156005 and 167858, both *ex* Smithsonian Inst. (printed labels).

egenum, Cerithium: 1849, PBSNH, vol. 3, p. 121 (Wilson's Island [Manihi, Tuamotu Islands], J. P. Couthouy), long. ⅜, lat. ⅛ in.; 1852, USEE, vol. 12, p. 151, pl. 10, fig. 171; 1862, Otia Conch., p. 62. Figured holotype USNM 5571.

egenum, Solarium [***Torinia***]: 1849, PBSNH, vol. 3, p. 84 (hab.?), diam. 3/10, alt. ¼ in.; 1852, USEE, vol. 12, p. 196, pl. 13, fig. 226,a–c (New Zealand); 1862, Otia Conch., pp. 54, 245. Figured holotype USNM 5626.

egregia, Cyclas: 1850, PBSNH, vol. 3, p. 292 (New South Wales?), long. ⅞, alt. ⅝, lat. ½ in.; 1852, USEE, vol. 12, p. 425, pl. 36, fig. 526,a–b (Hunter's River, New South Wales [Australia]); 1862, Otia. Conch., p. 86.

elata, Nassa: 1845, PBSNH, vol. 2, p. 38 (Liberia, C. J. Bates), long. 13/20, lat. 3/10 in.; 1845, BJNH, vol. 5, p. 293, pl. 24, fig. 11; 1862, Otia Conch., p. 197. Figured holotype MCZ 169129 *ex* NYSM 16, original no. A 4664; paratype USNM 611244 from same NYSM lot.

elata, Physa **Plate 44, fig. 9**
1853, BJNH, vol. 6, p. 379, pl. 14, fig. 4 (Lower California, W. Rich), length ⅞, breadth ⅜, length of aperture ⅝ in.; 1862, Otia Conch., p. 185. Lectotype, here selected, MCZ 169130 *ex* NYSM 307, original no. A 1794; 2 paratypes MCZ 169131 from same NYSM lot; 2 paratypes USNM 56414 *ex* W. Rich.

elata, Pupa [(***Megaspira***)]: 1847, PBSNH, vol. 2, p. 197 (Brazil), long. 1½, lat. ⅓ in.; 1852, USEE, vol. 12, p. 91, pl. 7, fig. 101; 1862, Otia Conch., p. 34. Figured holotype USNM 5503; paratype MCZ 27066 *ex* Smithsonian Inst. (printed label). See Rehder, 1945, Nautilus, vol. 59, p. 67.

electrina, Helix [***Helicella***]: 1841, Invert. Massachusetts, p. 183, fig. 111 (borders of Fresh Pond, Cambridge [Massachusetts], T. J. Whittemore). Mentioned as being in Massachusetts State Cabinet 107 and BSNH 2392 but both specimens lost; 1851, *in*

A. Binney, Terr. Moll. U.S., vol. 2, p. 236, pl. 29, fig. 1; 1862, Otia Conch., p. 182; diam. more than ⅛ in.; 1870, Invert. Massachusetts, p. 397, fig. 656 [genus changed to *Hyalina*].

elisa, Streptaxis: 1856, PBSNH, vol. 6, p. 13 (Island in Mergui Archipelago [Burma], J. Benjamin), length ½, height ¼ in.; 1862, Otia Conch., p. 220. 3 specimens MCZ 169433, 163434, and USNM 611207 all *ex* NYSM 229, original no. A 6206. Obviously an error, since these specimens are *Conchlodina laminata* Montagu.

***elisus, Trochus* [*Thalotia*]:** 1849, PBSNH, vol. 3, p. 92 (dredged at Singapore, Pickering), diam. ⅜, alt. ½ in.; 1852, USEE, vol. 12, p. 178, pl. 13, fig. 216,a–c; 1862, Otia Conch., pp. 57, 245.

ellipsoidea, Achatinella: 1847, PBSNH, vol. 2, p. 200 (Maui [Hawaiian Islands], Brackenridge and Hale), lat. 7/20, alt. 7/10 in.; 1852, USEE, vol. 12, p. 87, pl. 7, fig. 96,a; 1862, Otia Conch., p. 35. Holotype USNM 5498, refigured by Pilsbry and Cooke, 1911, Manual of Conchology, ser. 2, vol. 21, p. 167, pl. 40, figs. 17, 18. Paratype MCZ 156364 *ex* Smithsonian Inst. (printed label).

ellipsoidea, Cylichna: 1859, PBSNH, vol. 7, p. 140 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 3, diam. 1 mm.; 1862, Otia Conch., p. 112. NPEE.

ellipsoidea, Trichotropis: 1860, PBSNH, vol. 7, p. 324 (dredged in Hong Kong Bay [China], W. Stimpson), axis 10, diam. 5 mm.; 1862, Otia Conch., p. 121. NPEE.

***elobatus, Bulimus* [*Charis*]:** 1846, PBSNH, vol. 2, p. 190 (Feejee [Fiji] Islands), long. 2½, lat. 1⅝ in.; 1852, USEE, vol. 12, p. 72, pl. 6, fig. 84,a; 1862, Otia Conch., pp. 31, 244.

***encausta, Mitra* [*Pusia*]:** 1850, PBSNH, vol. 3, p. 172 (Feejee [Fiji] Islands), long. 7/20, lat. ⅛ in.; 1852, USEE, vol. 12, p. 274, pl. 20, fig. 356,a–b; 1862, Otia Conch., pp. 73, 245. 2 syntypes USNM 5751; smaller specimen could be fig. 356b.

eremita, Perna: 1850, PBSNH, vol. 3, p. 311 (Carlshoff [Aratica Island], Tuamotu Islands), long. 2, alt. 1 7/10, lat. ⅜ in.; 1852, USEE, vol. 12, p. 446, pl. 40, fig. 557,a–d; 1862, Otia Conch., p. 92. Figured holotype USNM 5942; paratype USNM 612317; paratype MCZ 216762 *ex* Smithsonian Inst. (printed label).

euglypta, Tellina **Plate 25, fig. 1**

1861, PBSNH, vol. 8, p. 28 (hab.?), long. 8, alt. 5, lat. 3 mm.; 1862, Otia Conch., p. 167. Measured holotype USNM 17867. NPEE.

***eurydice, Helix* [*Trochomorpha*]:** 1846, PBSNH, vol. 2, p. 177 (Tongataboo [Tonga Islands]), lat. 13/20, alt. 1/10 in.; 1852, USEE, vol. 12, p. 60, pl. 4, fig. 57,a–b; 1862, Otia Conch., pp. 24, 243. Figured holotype USNM 5459; 6 paratypes MCZ 2169133 *ex* NYSM 253, original no. A 743; 2 paratypes MCZ 87868 *ex* BSNH from J. P. Couthouy.

exacuta, Cleodora: 1852, USEE, vol. 12, p. 488, pl. 51, fig. 605,a–b (lat. 44° N., long. 154° W., about 30° W. of mouth of Columbia River, Oregon, Mr. Dana), long. ½, lat. ⅜ in. longitudinis; 1862, Otia Conch., p. 235.

exacutus, Streptaxis: 1856, PBSNH, vol. 6, p. 13 (Burma, F. Mason), length ½, breadth 3/10 in.; 1862, Otia Conch., p. 220.

exaequata, Helix [***Microcystis***]: 1846, PBSNH, vol. 2, p. 171 (Kauai, Sandwich [Hawaiian] Islands, J. P. Couthouy), lat. 1/20, alt. 3/20 in.; 1852, USEE, vol. 12, p. 47, pl. 5, fig. 61,a–c; 1856, ibid., Addenda and Corrigenda, p. 501; 1862, Otia Conch., pp. 29, 243. Figured holotype USNM 5463; 13 paratypes MCZ 169134 *ex* NYSM 259, original no. A 748; 2 paratypes MCZ 87862 *ex* BSNH 4368.

excelsus, Bulimus: 1853, BJNH, vol. 6, p. 376, pl. 14, fig. 3 (California, W. Rich), length 1¾, breadth ¾ in.; 1862, Otia Conch., p. 184.

exculta, Tellina [***Tellinella***]: 1850, PBSNH, vol. 3, p. 253 (Feejee [Fiji] Islands), long. 2, alt. 1, lat. 1/20 in.; 1852, USEE, vol. 12, p. 407, pl. 35, fig. 517,a–b; 1862, Otia Conch., p. 80. Figured holotype USNM 5904.

exiguus, Elenchus **Plate 7, fig. 9**

1861, PBSNH, vol. 8, p. 18 (Port Jackson [New South Wales, Australia]), axis 2, diam. 1.5 mm.; 1862, Otia Conch., p. 156. Probable measured holotype USNM 24230, original no. 378, seen by Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 278. Original catalog gives locality as "China Seas." NPEE.

exolescens, Unio **Plate 33, fig. 2**

1843, PBSNH, vol. 1, p. 141 ([Tavoy,] British Burmah [Burma], F. Mason), long. 2¾, alt. 1¼, lat. ⅜ in.; 1862, Otia Conch., p. 191. Half probable measured holotype, here selected, lectotype USNM 85473 *ex* I. Lea coll. from Gould; paratypes USNM 611831 from same lot consisting of 3 smaller odd valves.

explanata, Crepidula: 1853, BJNH, vol. 6, p. 377, pl. 14, fig. 7 (Monterey [California], T. P. Green; Lower California, W. Rich), length 1¼, breadth ½, height ⅓ in.; 1862, Otia Conch., p. 184. Figured holotype MCZ 169137 *ex* NYSM 108, original no. A 48 from former locality; 2 paratypes MCZ 169138 and paratype USNM 611272 from same NYSM lot.

explanata, Succinea [***Omalonyx***]: 1852, USEE, vol. 12, p. 13, pl. 2, fig. 31,a–c; 1862, Otia Conch., p. 223 (Kauai [Hawaiian Islands], J. P. Couthouy), long. ¼, lat. ⅛ in.; 1862, Otia Conch., p. 223. Figured holotype USNM 20870; paratype USNM 5431; paratype MCZ 169135 *ex* NYSM 182, original no. A 1523; paratype MCZ 155126 *ex* Smithsonian Inst. (printed label).

expleta, Modiolaria: 1861, PBSNH, vol. 8, p. 37 (Hong Kong Harbor [China], W. Stimpson), long. 6, alt. 4, lat. 2 mm.; 1862, Otia Conch., p. 176. Holotype USNM 2068, not found. NPEE.

exquisita, Julia **Plate 45, figs. 3, 5**

1862, PBSNH, vol. 8, p. 284 (Sandwich [Hawaiian] Islands, E. Johnson), long. 5, lat. 4, alt. 4 mm.; 1862, Otia Conch., p. 241. Dall, 1898, Trans. Wagner Free Inst. Sci., vol. 3, pt. 4, p. 810, calls attention to an apparent syntype of this species in the W. Newcomb coll. at Cornell University, Ithaca, New York. This specimen was observed by A. D. Howard, 1951, Nautilus, vol. 64, p. 84. Half lectotype, here selected, Cornell Univ. Paleo. Dept. 17774; the lot also contains a larger opposing paratype valve.

falcata, Alasmodon[ta]: 1850, PBSNH, vol. 3, p. 294 (Wallawalla, Oregon [Washington]; Sacramento River, California), long. 4, alt. 1½, lat. 1 in.; 1852, USEE, vol. 12, p. 433, pl. 38, fig. 545,a–b (Wallawalla, Spokane, Wahlamet, etc., Oregon [Washington], J. Drayton; Upper Sacramento River, California, Pickering); 1862, Otia Conch., p. 87. Figured holotype USNM 5929, specific locality not mentioned; paratype MCZ 169160 *ex* NYSM [not previously cataloged] from the Smithsonian Inst. (printed label).

falcata, Cleodora [***(Creseis)***]: 1852, USEE, vol. 12, p. 490, pl. 51, fig. 608,a (between Oregon and the East Indies, Dana), long. ½ in.; 1862, Otia Conch., p. 235.

falcata, Mactra: 1850, PBSNH, vol. 3, p. 216 (Puget Sound, Oregon [Washington]), long. 3¾, alt. 2½, lat. 1⅛ in.; 1852, USEE, vol. 12, p. 393, pl. 34, fig. 506,a–b (northwest coast, Puget Sound [Washington], Case); 1862, Otia Conch., p. 76. Figured holotype USNM 5893.

falcatus, Lithodomus: 1851, PBSNH, vol. 4, p. 92 (Monterey [California], in indurated marly clay, W. Rich), long. 3, lat. et alt. ½ in.; 1853, BJNH, vol. 6, p. 403, pl. 16, fig. 9; 1862, Otia Conch., p. 213. Figured holotype MCZ 169139 *ex* NYSM 372; original no. 3450; 4 paratypes MCZ 169140 and paratype USNM 611271 from same NYSM lot.

fallax* 'Say' Gould, *Pupa: 1841, Invert. Massachusetts, p. 192, fig. 123 (Martha's Vineyard, L. M. Yale; Rhode Island; Ohio), not *Pupa fallax* Say. See Pilsbry, 1948, Land Mollusca of North America, vol. 2, pt. 2, p. 921.

famelicus, Unio: 1850, PBSNH, vol. 3, p. 294 (Wallawalla, Oregon [Washington], Pickering), long. 1¼, alt. ¾, lat. ⅜ in.; 1852, USEE, vol. 12, p. 432, pl. 38, fig. 544,a–b; 1862, Otia Conch., p. 88. Figured holotype USNM 5929.

farinacea* 'Gould' Stimpson, *Eolis: 1853, Synopsis of the Marine Invertebrata of Grand Manam, Smithsonian Contr. Knowl., vol. 6, p. 25.

***farinosum, Buccinum* (*Pollia*) [*Nassaria*]:** 1850, PBSNH, vol. 3, p. 152 (Kauai, Sandwich [Hawaiian] Islands,) long. ⅜, lat. 3/10 in.; 1852, USEE, vol. 12, p. 255, pl. 19, fig. 323,a; 1862, Otia Conch., pp. 68, 245. Figured holotype USNM 5719; 7 paratypes MCZ 169141 *ex* NYSM 8, original no. A 2597.

***fasciata, Dombeya* [*Chilina*]:** 1847, PBSNH, vol. 2, p. 211 (Concón [Aconcagua River], Quillota, Chili, J. P. Couthouy), long. ¾, lat. ⅜ in.; 1852, USEE, vol. 12, p. 123, pl. 9, fig. 145,a; 1862, Otia Conch., pp. 41, 244. Figured holotype USNM 5545; 2 paratypes MCZ 143421 *ex* Smithsonian Inst. (printed label).

***fastigiata, Calyptraea* [*Crucibulum*]:** 1846, PBSNH, vol. 2, p. 161 (Puget Sound [Washington]), diam. ½, alt. ⅕ in.; 1852, USEE, vol. 12, p. 379, pl. 32, fig. 484; 1862, Otia Conch., pp. 15, 243. Figured holotype USNM 5874; paratype USNM 122306; 2 paratypes MCZ 169142 *ex* NYSM 104, original no. A 6361; 2 paratypes MCZ 216801 *ex* Smithsonian Inst. (printed label).

fastigiata, Gouldia: 1862, PBSNH, vol. 8, p. 282 (Frying-Pan Shoals [Cape Fear], North Carolina, Coast Survey), long. 8, alt. 8 mm.; 1862, Otia Conch., p. 239.

***feminalis, Anodon*[*ta*]:** 1850, PBSNH, vol. 3, p. 293 (Oregon), long. 2½, alt. 1¼, lat. ¾ in.; 1852, USEE, vol 12, p. 436, pl. 38, fig. 547,a–b (Wallawalla, Columbia River, Oregon [Washington], Pickering); 1862, Otia Conch., p. 87. Figured holotype USNM 5932; paratype MCZ 169156 *ex* NYSM, original no. A 6407.

femoralis* 'Gould,' *Anodon: 1875, 27th Ann. Rep. NYSM, p. 54, misprint for *feminalis*, *Anodonta.*

femorata, Hyalaea: 1852, USEE, vol. 12, p. 487, pl. 51, fig. 603 (equatorial Atlantic), length of shell and animal, also of alar expansion, 1½ in.; 1862, Otia Conch., p. 235. This species was described from a figure by Mr. Dana, a member of the expedition.

fenestrata, Alvania: 1861, PBSNH, vol. 7, p. 402 (China Seas, W. Stimpson), axis 2, diam. 1+ mm.; 1862, Otia Conch., p. 146. Type lot USNM 388 not found. NPEE.

fenestrata, Peristernia: 1860, PBSNH, vol. 7, p. 327 (Simon's Bay, Cape of Good Hope, W. Stimpson), axis 13, diam. 6 mm.; 1862, Otia Conch., p. 124: "Only a single specimen was found." NPEE.

fidicula, Fusus [***Bela***]: 1849, PBSNH, vol. 3, p. 141 (Puget Sound [Washington], long. 2/10, lat. 4/10 in.; 1852, USEE, vol. 12, p. 233, pl. 16, fig. 284,a; 1862, Otia Conch., pp. 64, 245. Figured holotype USNM 206191; 2 paratypes MCZ 169143 *ex* NYSM 1, original no. A 5358.

fidicula, Mitra: 1850, PBSNH, vol. 3, p. 170 (hab.?), long. 3/4, lat. 3/10 in.; 1852, USEE, vol. 12, p. 275, pl. 20, fig. 353,a; 1862, Otia Conch., p. 72. 2 syntypes USNM 15355, original no. 5748, both smaller than figured type; syntype MCZ 216583 *ex* Smithsonian Inst. (printed label).

figlina, Mysia **Plate 26, fig. 4**

1861, PBSNH, vol. 8, p. 32 (dredged off east coast of Japan, lat. 37°, in coarse, black sand, 20 fathoms, W. Stimpson), long. 18, alt. 16, lat. 6 mm.; 1862, Otia Conch., p. 171. Half measured holotype USNM 1629. NPEE.

figlina, Psammobia: 1845, PBSNH, vol. 2, p. 37 (Liberia, C. J. Bates), long. 3 1/5, alt. 2 1/5, lat. 1 3/5 in.; 1845, BJNH, vol. 5, p. 291, pl. 24, fig. 9; 1862, Otia Conch., p. 196.

filosa, Clathurella: 1860, PBSNH, vol. 7, p. 338 (Ouisma [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 20, diam. 10 mm.; 1862, Otia Conch., p. 134. NPEE.

filosum, Cerithium: 1849, PBSNH, vol. 3, p. 120 (Puget Sound [Washington]), long. 5/8, lat. 1/5 in.; 1852, USEE, vol. 12, p. 149, pl. 10, fig. 175,a–c: "Only a single specimen examined"; 1862, Otia Conch., p. 62. Figured holotype USNM 5575.

fimbriata, Aplysia: 1850, PBSNH, vol. 3, p. 197 (Liberia, G. A. Perkins), length 5, width 3 1/2 in.; 1862, Otia Conch., p. 210.

fimbriata, Patella: 1846, PBSNH, vol. 2, p. 149 (Straits of [Juan de] Fuca [Washington], Case), long. 1 1/5, lat. 1 3/10, alt. 2/10 in.; 1852, USEE, vol. 12, p. 344, pl. 29, fig. 445,a–b; 1862, Otia Conch., pp. 7, 242.

firmatum, Lepton: 1861, PBSNH, vol. 8, p. 33 (sand at low water, Simon's Bay [Cape of Good Hope], W. Stimpson), long. 5, lat. 2, alt. 4 mm.; 1862, Otia Conch., p. 171. Presumed holotype USNM 161 figured by Bartsch, 1915, USNM Bull. 91, p. 196, pl. 43, figs. 3–4. NPEE.

flabellata, Lyonsia (***Pandorina***): 1861, PBSNH, vol. 8, p. 23 (Arctic Ocean, W. Stimpson), long. 17, alt. 10, lat. 6 mm.; 1862, Otia Conch., p. 162. NPEE.

flabellatus, Mytilus (***Modiola***): 1850, PBSNH, vol. 3, p. 343 (Puget Sound, Oregon [Washington]), long. 4, alt. 1 3/4, lat. 1 1/4 in.; 1852, USEE, vol. 12, p. 453, pl. 40, fig. 561,a (Oregon [Washington]; Puget Sound, Townsend Harbor; [San Francisco,] California); 1862, Otia Conch., p. 93. Syntype USNM 3885 from Puget Sound.

flaccida, Saxicava **Plate 36, fig. 3**

1861, PBSNH, vol. 8, p. 24 (Hong Kong [China], and Simon's Bay [Cape of Good Hope], W. Stimpson), long. 20, alt. 13, lat. 10 mm.; 1862, Otia Conch., p. 163. Type lot USNM 131, original no. 216 not found. Catalog includes following chiding note: "No *Sphaeria* at all. Why look at the extended ligament and large teeth, naked eye will do friend G[ould]. Did it come from False Bay, Cape of Good Hope?" Lectotype, here selected, Redpath Mus. 15679. NPEE.

flava, Natica [Acrybia]: 1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 196 (stomachs of fish); 1841, Invert. Massachusetts, p. 239, fig. 162 ([Grand] Bank[s] fishing grounds, coll. of Col. Totton); length 1, lat. 7/10 in.; mentioned as being in Massachusetts State Cabinet 44, but specimen lost; 1862, Otia Conch., p. 180; 1870, Invert. Massachusetts, p. 347, fig. 616 [genus changed to *Bulbus*]. Gould examined five specimens: three were mature, the other two were young.

flavescens, Amphidesma [Semele] **Plate 29, fig. 7**

1851, PBSNH, vol. 4, p. 89 (San Diego [California], T. P. Green), long. 2⅜, alt. 2⅛, lat. 1¼ in.; 1853, BJNH, vol. 6, p. 392; 1862, Otia Conch., p. 211. Measured holotype MCZ 169157 *ex* NYSM 253, original no. G 2173.

flexuosa, Rissoina **Plate 15, fig. 3**

1861, PBSNH, vol. 7, p. 400 (Sydney Harbor [New South Wales, Australia], W. Stimpson), axis 6, diam. 2 mm.; 1862, Otia Conch., p. 144. Probable measured holotype, here selected, lectotype USNM 24076, original no. 286. NPEE.

flexuosus, Donax **Plate 29, fig. 1**

1853, BJNH, vol. 6, p. 394, pl. 15, fig. 8 (Santa Barbara [California], E. Jewett), long. ¾, alt. ½, lat. ⅝ in.; 1862, Otia Conch., p. 188. Lectotype, here selected, MCZ 169144 *ex* NYSM 350, original A 977; paratype MCZ 169145 and paratype USNM 611264 from same NYSM lot.

florida, Mitra **Plate 4, fig. 10**

1856, PBSNH, vol. 6, p. 14 (Florida, E. Ravenel; supposed from Philippines, J. C. Jay), axis 1¾, greatest diam. ¾, length of aperture 1⅛ in.; 1862, Otia Conch., p. 221. Measured holotype MCZ 169146 *ex* NYSM 26, original no. A 4548, from E. Ravenel. Gould had a single specimen from each source; the Jay specimen was presumably returned, but it could not be located in the American Museum of Natural History.

florida, Psammobia: 1850, PBSNH, vol. 3, p. 254 (Illawarra [District], New South Wales [Australia], Drayton), long. 1¼, alt. 7/10 in.; 1852, USEE, vol. 12, p. 403, pl. 35, fig. 513,a–b; 1862, Otia

Conch., p. 81. Syntype USNM 5900, smaller than figured type; 2 syntypes MCZ 169147 *ex* NYSM 346, original no. G 2195.

fluctuosa, Melania **Plate 35, fig. 8**

1847, PBSNH, vol. 2, p. 219 (Newville, [Province of] Tavoy [Burma], Mrs. Vinton), long. ⅜, lat. ¼ in.; 1862, Otia Conch., p. 200. Measured holotype MCZ 169136 *ex* NYSM 65, original no. G 2581.

fluctuosa, Myadora **Plate 26, fig. 2**

1861, PBSNH, vol. 8, p. 23 (Kagos[h]ima Bay [Japan], W. Stimpson), long. 8, alt. 7, lat. 3 mm.; 1862, Otia Conch., p. 161. Half measured holotype USNM 1313. NPEE.

***fluctuosa, Venus* [*Tapes*]:** 1841, Invert. Massachusetts, p. 87, fig. 50 ([Grand] Banks fisheries [off Nova Scotia]), long. 5/10, alt. 5/10, lat. 2/10 in.; mentioned as being in Massachusetts State Cabinet 193 and BSNH 2333, but both specimens lost; 1862, Otia Conch., p. 181; 1870, Invert. Massachusetts, p. 136, fig. 447 [genus changed to *Tapes*]. Gould had three specimens of this species.

foliacea, Unio **Plate 33, fig. 3**

1843, PBSNH, vol. 1, p. 141 ([Tavoy,] British Burmah [Burma], F. Mason), long. 1⅝, lat. ½, alt. 5/10 in.; 1862, Otia Conch., p. 191. Half possible measured holotype, here selected, lectotype USNM 84161 *ex* I. Lea coll. from Gould; 3 paratypes USNM 611827 from same lot.

foliolatus, Arion: 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 30, pl. 66, fig. 2 (Discovery Harbor, Puget Sound [Washington], Pickering), length 3½ in.; 1852, USEE, vol. 12, p. 20, pl. 1, fig. 2,a–b; 1862, Otia Conch., p. 223.

fornicata, Helix: 1846, PBSNH, vol. 2, p. 172 (Kauai, Sandwich [Hawaiian] Islands), lat. ¼, alt. 1/10 in.; 1852, USEE, vol. 12, p. 50; 1856, ibid., Addenda and Corrigenda, p. 501: "The shell which was described as *H. fornicata* has been unfortunately mislaid, and the figure numbered 64, where it was to have been placed, represents *H. tongana* Quoy with its animal"; 1862, Otia Conch., pp. 21, 243. 8 ideotypes MCZ 169148 *ex* NYSM 288, original no. A 766.

***fossata, Natica* [*Neverita*]:** 1847, PBSNH, vol. 2, p. 263 (Florida Coast), lat. 1¾, alt. 1¼ in.; 1862, Otia Conch., p. 202.

***fossatum, Buccinum* [*Nassa*] [*Caesia*]:** 1850, PBSNH, vol. 3, p. 152 (Puget Sound and mouth of Columbia River [Washington]), long. 1¼, lat. 1 in.; 1852, USEE, vol. 12, p. 254, pl. 19, fig. 321,a (. . . and at San Diego, California); 1862, Otia Conch., pp. 67, 245. Figured holotype USNM 5718.

***fossatum, Triton* [(*Monoplex*)]:** 1860, PBSNH, vol. 7, p. 329 (Hong Kong [China], W. Stimpson), axis 35, diam. 30, apert. 20 mm.; 1862, Otia Conch., p. 126. NPEE.

fragilis, Panopaea: 1861, PBSNH, vol. 8, p. 25 (Hakodadi [Hakodate] Bay [Japan], W. Stimpson), long. 2, alt. 1.5, lat. 1 inch [sic]; 1862, Otia Conch., p. 163. Type lot, USNM 1636, not found. NPEE.

fricata, Nanina: 1852, USEE, vol. 12, p. 32, pl. 5, fig. 71,a–b (Illawarra [District], New South Wales [Australia], Drayton), diam. 7/10, axis 1/2 in.; 1862, Otia Conch., p. 223. Figured holotype USNM 5473.

fruticosus, Chiton [***Lepidopleura***]: 1846, PBSNH, vol. 2, p. 142 (New South Wales [Australia], Mrs. Mitchell), long. 1½, lat. 5/8 in.; 1852, USEE, vol. 12, p. 319, pl. 28, fig. 428,a; 1862, Otia Conch., pp. 4, 242. Measured holotype USNM 5819; paratype MCZ 169149 *ex* NYSM 162, original no. A 5467.

fruticosus, Murex (***Trophon***) [***Typhis***]: 1849, PBSNH, vol. 3, p. 143 (New Holland [Sydney, Australia]), long. ¾, lat. ½ in.; 1852, USEE, vol. 12, p. 236, pl. 17, fig. 287,a; 1862, Otia Conch., pp. 66, 245. Figured holotype USNM 5685.

fucata, Avicula: 1850, PBSNH, vol. 3, p. 309 (Feejee [Fiji] Islands?), long. 2, alt. 2¼, lat. 7/8 in.; 1852, USEE, vol. 12, p. 440, fig. 39, fig. 550,a–b [not *Avicula lurida*, the names were transposed]; 1862, Otia Conch., p. 90. Figured holotype USNM 5935; paratype MCZ 216815 *ex* Smithsonian Inst. (printed label).

fucata, Gibbula: 1861, PBSNH, vol. 8, p. 20 (hab.? [Cape of Good Hope]), diam. 7, axis 5 mm.; 1862, Otia Conch., p. 159. Lectotype, here selected, USNM 2047, figured by Bartsch, 1915, USNM Bull. 91, p. 155, pl. 27, figs. 4–6; paratype USNM 612333. NPEE.

fucata, Tellina (***Strigilla***): 1851, PBSNH, vol. 4, p. 91; 1853, BJNH, vol. 6, p. 399, pl. 16, fig. 4 (Mazatlan, E. Jewett), diam. longitud. 7/8, vertical 5/8, transverse 3/8 in.; 1862, Otia Conch., p. 212. Figured holotype MCZ 169150 *ex* NYSM 347, original no. G 2128; 3 paratypes MCZ 169151 and paratype USNM 611268 from same NYSM lot.

fulgens, Gibbula: 1861, PBSNH, vol. 8, p. 21 (hab.? [Cape of Good Hope]), diam. 7 mm.; 1862, Otia Conch., p. 160. Holotype USNM 2046, figured by Bartsch, 1915, USNM Bull. 91, p. 154, pl. 26, figs. 4–6; paratype MCZ 169152 *ex* NYSM 140, original no. G 2451. NPEE.

fulgens, Liotia: PBSNH, vol. 7, p. 142 (St. Simon's Bay, Cape of Good Hope, W. Stimpson), axis 2, diam. 5 mm.; 1862, Otia Conch., p. 114. Holotype USNM 24151, original no. 156, figured by Bartsch, 1915, USNM Bull. 91, p. 166, pl. 29, figs. 4–6. NPEE.

fulgora, Helicina: 1847, PBSNH, vol. 2, p. 201 (Islands of Upolu and Manua [Samoan Islands], among bananas), lat. 9/10, alt. 5/10 in.; 1852, USEE, vol. 12, p. 97, pl. 7, fig. 106,a–c (among bananas,

Island of Manua [Samoan Islands], J. P. Couthouy); 1862, Otia Conch., p. 36. Measured holotype USNM 5508, figure reduced; 5 paratypes MCZ 169153 *ex* NYSM 293, original no. G 2628; paratype MCZ 216605 *ex* Smithsonian Inst. (printed label).

fuliginosa, Achatinella **Plate 42, fig. 7**

1845, PBSNH, vol. 2, p. 28 (Sandwich [Hawaiian] Islands), long. 7/10, lat. 3/8 in.; 1862, Otia Conch., p. 196: ". . . is *Helix tristis* Férussac." Holotype MCZ 169154 *ex* NYSM original no. A 1162.

fulgininosus, Limax: 1852, USEE, vol. 12, p. 5, pl. 1, fig. 4,a (Bay of Islands, New Zealand, among turnips, Pickering), long. 2.5 in.; 1862, Otia Conch., p. 223.

fulminea, Columbella [(***Anachis***)] **Plate 8, fig. 3**

1860, PBSNH, vol. 7, p. 334 (St. Simon's Bay, Cape of Good Hope, W. Stimpson), axis 3, diam. 2 mm.; 1862, Otia Conch., p. 131. Lectotype, here selected, USNM 130; 2 paratypes USNM 24090; 2 paratypes MCZ 119368 *ex* BSNH 6390; 2 paratypes MCZ 216582 *ex* Smithsonian Inst. (printed label); paratype Redpath Mus. 8056. NPEE.

funereum, Buccinum [***Cominella***]: 1850, PBSNH, vol. 3, p. 152 (New Zealand), long. 1, lat. ½ in.; 1852, USEE, vol. 12, p. 253, pl. 19, fig. 320,a; 1862, Otia Conch., pp. 67, 245. Figured holotype USNM 5717; 3 paratypes MCZ 216614 *ex* Smithsonian Inst. (printed label).

fungina, Emarginula Clypidina: 1846, PBSNH, vol. 2, p. 154 (Upolu, Samoan Islands), long. ½, lat. 3/8, alt. 1/8 in.; 1852, USEE, vol. 12, p. 374, pl. 32, fig. 491,a–c.; 1862, Otia Conch., p. 12. Syntype MCZ 216604.

furcillata, Septifer: 1861, PBSNH, vol. 8, p. 39 (China Seas, W. Stimpson), long. 8, lat. et alt. 4 mm.; 1862, Otia Conch., p. 177: "A somewhat worn valve furnishes the description." NPEE.

furfurosa, Melania [***Plotia***]: 1847, PBSNH, vol. 2, p. 225 (Manila [Philippine Islands]), long. 3/4, lat. 3/8 in.; 1852, USEE, vol. 12, p. 139, pl. 10, fig. 162,a; 1862, Otia Conch., pp. 47, 244. Figured holotype USNM 5562; 3 paratypes MCZ 87932 *ex* BSNH 3060.

furvus, Octopus: 1852, USEE, vol. 12, p. 475, pl. 47, fig. 589,a–d (from the market, Rio [de] Janeiro [Brazil], J. P. Couthouy), length of body 6, of arms about 40 in.; 1862, Otia Conch., p. 232.

fusca Alvania **Plate 12, fig. 3**

1861, PBSNH, vol. 7, p. 403 (dredged in Hong Kong Harbor [China], W. Stimpson), axis 5, diam. 1.5 mm.; 1862, Otia Conch., p. 147. Lectotype, here selected, USNM 37347, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 567, pl. 50, figs. 18, 19. 2 ideotypes MCZ 169155 *ex* NYSM 94, original no. G 2466 labeled "Hakodadi, Japan." NPEE.

***fuscata, Calliopaea* (?):** 1870, Invert. Massachusetts, p. 250, pl. 16, figs. 218–221 (on logs in a mastyard, Boston [Massachusetts], 1842), length 3/10, breadth 1/30 in.

***fuscata* Gould, *Cerithidea* (?*sacrata*, var.)** **Plate 11, fig. 6**
1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 206 (San Diego [California], W. P. Blake), long. 1.25, lat. .4 in.; not in 1862, Otia Conch. Lectotype, here selected, MCZ 169158 *ex* NYSM 60, original no. A 129; 3 paratypes MCZ 169159 from same NYSM lot.

fuscata, Embletonia: 1870, Invert. Massachusetts, p. 251, pl. 16, figs. 229–232 (in Charles River on logs in timber docks, and at South Boston Bridge [Massachusetts], on *Laomedea gemiculata*, 1842 and 1865), length 3/20, breadth 1/40 in.

fuscus* 'Linsley' Gould, *Pecten: 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 235, fig. 6 (Connecticut), long. 3/32, lat. 3/32 in. Described from one valve. Not Bosc 1801, Sowerby [Klein] 1842, changed to *Pectin brunneus* Stimpson, 1851, Shells of New England, p. [58].

***gabata, Helix* (*Caracolla*):** 1843, PBSNH, vol. 1, p. 39 ([Tavoy,] British Burmah [Burma], F. Mason), diam. 1/5, alt. 7/20 in.; 1844, BJNH, vol. 4, p. 454, pl. 24, fig. 9; 1862, Otia Conch., p. 189. Figured holotype MCZ 169161 *ex* NYSM 247, original no. A 560; paratype MCZ 169162 and paratype USNM 611230 from same NYSM lot; paratype MCZ 189364 *ex* BSNH; paratype MCZ 156011 *ex* C. B. Adams coll.; paratype USNM 105973 *ex* I. Lea coll.

***Gaimardia*, new genus:** 1852, USEE, vol. 12, p. 460. Type species: *Modiola trapesina* Lamarck, by monotypy. See 1856, ibid., Addenda and Corrigenda, p. 509, note.

***galeata, Rimula* [*Cemoria*]:** 1846, PBSNH, vol. 2, p. 159 (dredged at Puget Sound [Washington], Case), long. 3/20, lat. 3/20, alt. 3/20 in.; 1852, USEE, vol. 12, p. 369, pl. 31, fig. 476,a–c; 1862, Otia Conch., pp. 14, 243. Figured holotype USNM 5866; 2 paratypes MCZ 216591 *ex* Smithsonian Inst. (printed label).

gaudiosa, Gibbula: 1861, PBSNH, vol. 8, p. 21 (False Bay [Cape of Good Hope], W. Stimpson), diam. 6 mm.; 1862, Otia Conch., p. 159. Lectotype, here selected, USNM 222, figured by Bartsch, 1915, USNM Bull. 91, p. 156, pl. 28, figs. 1–3; paratype USNM 31119; 2 paratypes MCZ 169163 *ex* NYSM 137, original no. G 2436. NPEE.

gaulus, Anyclus **Plate 30, fig. 1**
1859, PBSNH, vol. 7, p. 40 (Cape of Good Hope, W. Stimpson), long. 1/5, lat. 1/8, alt. 1/10 in.; 1862, Otia Conch., p. 106. Lectotype, here selected, USNM 24111, original no. 233. NPEE.

gausapata, Columbella: 1850, PBSNH, vol. 3, p. 170 (Puget Sound, Oregon [Washington], long. ½, lat. ⅛ in.; 1852, USEE, vol. 12, p. 267, pl. 19, fig. 337,a-b; 1862, Otia Conch., pp. 71, 245. Probable figured holotype USNM 5732; paratype USNM 612307; paratype MCZ 169165 *ex* NYSM 34, original no. G 2558; 54 paratypes MCZ 169166 *ex* NYSM 32, original no. A 6335; 3 paratypes MCZ 197146 *ex* Smithsonian Inst. (printed label).

gemma, Tellina: 1853, BJNH, vol. 6, p. 399, pl. 16, fig. 5 (San Juan [Orange County, California], T. P. Green), diam. long. ⅜, vert. 3/10, trans. 3/20 in.; 1862, Otia Conch., p. 188.

gemmatus, Trochus (***Monodonta***) [***Eucheles***] **Plate 15, fig. 10**
1845, PBSNH, vol. 2, p. 27 (Sandwich [Hawaiian] Islands), long. ¼, lat. ⅛ in.; 1862, Otia Conch., p. 195. Lectotype, here selected, MCZ 169167 *ex* NYSM 129, original no. A 3345; 3 paratypes MCZ 169168 and paratype USNM 611218 from same NYSM lot.

gemmula, Cypraea [***Trivia***] **Plate 7, fig. 10**
1845, PBSNH, vol. 2, p. 27 (Sandwich [Hawaiian] Islands), long. ⅛, lat. 1/20 in.; 1862, Otia Conch., p. 195. Lectotype MCZ 169169 *ex* NYSM 58, original no. A 4063; 100+ paratypes MCZ 169170 and 3 paratypes USNM 611214 from same NYSM lot.

gemmulata, Cardilia: 1861, PBSNH, vol. 8, p. 31 (China Seas, W. Stimpson), long. 2, alt. 2.5, lat. 2 mm.; 1862, Otia Conch., p. 170. NPEE.

generosa, Panopaea: 1850, PBSNH, vol. 3, p. 215 (Puget Sound, Oregon [Washington]), long. 6, alt. 4, lat. 3 in.; 1852, USEE, vol. 12, p. 385, pl. 34, fig. 507,a-b (mud flats at Nisqually [present site of Tacoma] and Puget Sound [Washington]); 1862, Otia Conch., pp. 75, 163. Figured holotype USNM 5894.

generosus, Unio **Plate 33, fig. 1**
1847, PBSNH, vol. 2, p. 220 (Newville, [Province of] Tavoy [Burma], Mrs. Vinton), long. 3¾, lat. 1½, alt. 2½ in.; 1862, Otia Conch., p. 200. Measured holotype MCZ 169449 *ex* NYSM 27, original no. A 5710; 4 paratypes MCZ 169450 from same NYSM lot; paratype USNM 83960 *ex* I. Lea coll. from Gould.

geniculata, Argonauta: 1852, USEE, vol. 12, p. 470, pl. 45, fig. 585 (bis) a-e (taken near Sugarloaf [Mountain], Rio [de] Janeiro [Brazil], J. P. Couthouy); whole length 6, breadth 1½, length of sac 2½, length of superior arms 5, inferior 4½, superior lateral 6, inferior 4, diam. of umbrella 1½ in.; 1862, Otia Conch., p. 23.

germana, Helix: 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 156, pl. 40a, fig. 3 (Oregon, USEE), diam. 3/10, axis ⅛ in.; 1852, USEE, vol. 12, p. 70, pl. 3, fig. 40,a-c; not in 1862, Otia Conch.

gibbosa, Physa: 1847, PBSNH, vol. 2, p. 214 (New South Wales), long. ⅝, lat. ⅜ in.; 1852, USEE, vol. 12, p. 117, pl. 8, fig. 137,a (freshwater streams at Paramatta, New South Wales [Australia], Mrs. Mitchell); 1862, Otia Conch., p. 42. Measured holotype USNM 5539, figure enlarged; paratype MCZ 169171 *ex* NYSM 306, original no. G 2636.

glabra, Auricula [***Avicula***]: 1850, PBSNH, vol. 3, p. 310 (New Zealand), long. 2¾, alt. 2¾, lat. ⅞ in.; 1852, USEE, vol. 12, p. 442, pl. 39, fig. 552,a–b; 1862, Otia Conch., p. 91. Figured holotype USNM 5937; paratype MCZ 216816 *ex* Smithsonian Inst. (printed label).

glabra, Helicina **Plate 41, fig. 2**

1842, BJNH, vol. 4, no. 1, back cover (Cuba [J. Bartlett]); 1843, PBSNH, vol. 1, p. 138: ". . . is *Helix nitida* Pfeiffer"; 1862, Otia Conch., p. 183. Lectotype, here selected, MCZ 169172 *ex* NYSM 294, original no. A 1808; 3 paratypes MCZ 169173 and paratype USNM 611253 from same NYSM lot.

glabratum, Monodonta: 1861, PBSNH, vol. 8, p. 20 (China Seas, W. Stimpson), axis 15, diam. 13 mm.; 1862 Otia Conch., p. 159. Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 563 says: "The lot in the USNM is marked with a query '? C 2051' and contains a single specimen, measuring 20 mm. in altitude, 17.5 mm. in width. . . . does not seem to represent *M. glabratum* Gould." NPEE.

glandula, Callista **Plate 30, fig. 5**

1861, PBSNH, vol. 8, p. 31 (Hong Kong, China, W. Stimpson), long. 25, alt. 21, lat. 19 mm.; 1862, Otia Conch., p 169. Half ideotype USNM 24725 labeled "China Seas, W. Stimpson." NPEE.

glareosa, Mangelia **Plate 5, fig. 5**

1860, PBSNH, vol. 7, p. 340 (Hong Kong Harbor [China], in 10 fathoms, shelly bottom, W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 136. Lectotype, here selected, USNM 24174, original no. 575. NPEE.

glareosa, Monilea **Plate 4, fig. 4**

1861, PBSNH, vol. 8, p. 17 (Loo Choo [Okinawa, Ryukyu Islands], Ousima [Amami-O-shima, Ryukyu Islands] and Kikaia [Kikaiga-shima, Ryukyu Islands], under surf-washed stones, W. Stimpson), diam. 5 in.; 1862, Otia Conch., p. 155. Lectotype, here selected, USNM 971; 2 smaller paratypes USNM 24178; 2 paratypes MCZ 169174 *ex* NYSM 135, original no. G 2413 [localities not separated]. NPEE.

glareosum, Bittium **Plate 12, fig. 15**
1861, PBSNH, vol. 7, p. 387 (Port Lloyd, Bonin Islands; and Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 6; lat. 2 mm.; 1862, Otia Conch., p. 142. Measured holotype USNM 24221, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 569, pl. 50, fig. 5; 4 paratypes USNM 612330; paratype MCZ 216625 *ex* Smithsonian Inst. (printed label). NPEE.

glauca, Anodon[ta]: 1850, PBSNH, vol. 3, p. 293 (Peru), long. 1⅝; alt. ⅞, lat. ½ in.; 1852, USEE, vol. 12, p. 434, pl. 38, fig. 548,a-b, not *Anodonta glauca* Lamarck 1819. Name changed to *Anodonta puberula* Gould, 1862, Otia Conch., p. 86. Figured holotype USNM 5933.

globosa, Cheletropis: 1861, PBSNH, vol. 7, p. 408 (China Seas, W. Stimpson), axis 1; diam. 8 mm.; 1862, Otia Conch., p. 152. NPEE.

glomerata, Ostrea: 1850, PBSNH, vol. 3, p. 346 (New Zealand), long et lat. 2 in.; 1852, USEE, vol. 12, p. 461, pl. 43, fig. 577,a-b; 1862, Otia Conch., p. 96. Figured holotype USNM 5960, fig. 577a,b; group of figured paratypes fig. 577, USNM 612314; paratype MCZ 178590 *ex* BSNH 8531; paratype MCZ 178591 *ex* Smithsonian Inst. (printed label).

glomeratus, Mytilus **Plate 27, fig. 2**
1851, PBSNH, vol. 4, p. 92 (San Francisco [California], W. Rich), long. ⅝, alt. ⅜ in.; 1853, BJNH, vol. 6, p. 402, pl. 16, fig. 8; 1862, Otia Conch., p. 214. Lectotype, here selected, MCZ 169175 *ex* NYSM 371, original no. A 4716; paratype MCZ 169176 from same NYSM lot; 2 paratypes USNM 2323 and 19406 *ex* W. Rich coll.

gloriosum, Polydonta (Infundibulum): 1861, PBSNH, vol. 8, p. 19 (Japan, W. Stimpson), axis et diam. 30 mm.; 1862, Otia Conch., p. 158. Type lot no. G 2419, listed as lost in 1875, 27th Ann. Rep. NYSM, p. 13.

gouldiana **Pilsbry, *Bulla:*** New name for *Bulla nebulosa* 'Gould' A. Adams 1850, not Schroeter 1804. See under *nebulosa* 'Gould' A. Adams, *Bulla.*

gouldi **Pilsbry, *Oxyloma decampi:*** New name for *Succinea ovalis* Gould 1841, not Say 1817. See under *ovalis, Succinea.*

gouldii **Reeve, *Achatina:*** New name for *Achatina balteata* Gould 1850, not Reeve 1849. See under *balteata, Achatina.*

gouldii **Kobelt, *Japonia:*** New name for *Cyclostoma barbata* Gould 1859, not *Pfeiffer* 1855. See under *barbata, Cyclostoma.*

gouldii **Yen, *Hemidaphne:*** New name for *Mangelia pura* Gould 1860, not Reeve 1846. See under *pura, Mangelia.*

gouldii*, C. B. Adams, *Natica: New name for *Natica canaliculata* Gould 1839, not Deshayes 1832, not *Natica gouldii* Philippi 1845. See under *canaliculata, Natica.*

gouldii* Carpenter, "?" *Nitidella: 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 209. See Palmer, 1958, Geol. Soc. Amer. Mem., no. 76, p. 209.

***gracile, Caecum* [*Anellum*]** **Plate 20, fig. 6**

1861, PBSNH, vol. 7, p. 407 (China Seas, W. Stimpson), long. 2, diam. 0.3 mm.; 1862, Otia Conch., p. 151: "Described from a single worn and defective specimen."

This species was first described by P. P. Carpenter, 1858, Proc. Zool. Soc. London, p. 429, and must be credited to him. He borrowed Gould's specimen and the holotype was never returned to the United States National Museum. Holotype Redpath Mus. 16266, original USNM 384. NPEE.

gracilenta, Scalaria: 1847, PBSNH, vol. 2, p. 252 (Mangsi Island [Strait of Balabac]), long. ¼, alt. 1/16 in.; 1852, USEE, vol. 12, p. 205, pl. 14, fig. 245,a-b; 1862, Otia Conch., p. 99. Figured holotype USNM 5644.

gracilenta* 'Gould' Binney, *Truncatella: 1858, Proc. Acad. Nat. Sci. Philadelphia, vol. 10 [errata, no pagination, nomen nudum]. Is *T. californica* Pfeiffer, teste W. G. Binney, 1859, Terrestrial Air-breathing Molluscs of the United States, vol. 4, p. 29; Pilsbry, 1948, Land Mollusca of North America, vol. 2, pt. 2, p. 1073.

gracilentus, Planorbis: 1855, PBSNH, vol. 5, p. 129 (Great Colorado Desert, low lands, T. H. Webb), axis ⅛, diam. ½ in.; 1862, Otia Conch., p. 217. Holotype USNM 26477, figured by F. C. Baker, 1945, the Molluscan Family Planoribidae, pl. 130, figs. 1–3; 6 paratypes MCZ 169177 *ex* NYSM 309, original no. A 6459.

gracilina, Melania **Plate 35, fig. 9**

1859, PBSNH, vol. 7, p. 42 (Tahiti [Society Islands], common in streams, long. 1, lat. ⅓ min.; 1862, Otia Conch., p. 107. Lectotype, here selected, USNM 1953; 10 paratypes USNM 16760; 13 paratypes MCZ 169178, *ex* NYSM 67, original no. G 2585; 60 paratypes MCZ 78596 *ex* BSNH 3095 from Smithsonian Inst. (printed label); 7 paratypes MCZ 220664 *ex* Smithsonian Inst. (printed label). NPEE.

gracilis, Amnicola: See under *egena, Amnicola.*

gracilis, Solen: 1861, PBSNH, vol. 8, p. 26 (Hakodadi [Hakodate, Japan], on sandy beaches, W. Stimpson), long. 4.5, alt. 0.6, lat. 4 in.; 1862, Otia Conch., p. 165. Type lot USNM 594, not found. NPEE. Not *Solen gracilis* Philippi 1847, is *Solen strictus* Gould 1861.

gracilis, Tapes: 1855, in Blake, Appendix, Prel. Geol. Rep. R.R. Route to Pacific, p. 27 (San Pedro [California], W. P. Blake; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 335, pl. 11, figs. 19–20; 1856 [1857], Gould and Carpenter, Proc. Zool. Soc. London, p. 200. Described from one specimen which measured: length ¾, height ½, width ⅛ in. Type was not found in USNM in 1864, teste Carpenter, 1864, Rep. British Assn. Adv. Sci. 1863, p. 592.

gracilis* 'Gould,' *Turritella: 1875, 27th Ann. Rep. NYSM, p. 49. Misprint for *gracillima, Turritella.*

gracillima, Turritella **Plate 15, fig. 15**
1861, PBSNH, vol. 7, p. 386 (Kagos[h]ima Bay [Japan], very common, W. Stimpson); axis 20, diam. 4 mm.; 1862, Otia Conch., p. 140. Measured holotype USNM 2027; 8 paratypes USNM 24143; 2 paratypes MCZ 169179 *ex* NYSM 103, original no. G 2803; 2 paratypes MCZ 136621 *ex* BSNH 3559 from W. Stimpson. NPEE.

***gradata, Helix* [*Euryomphala*]:** 1846, PBSNH, vol. 2, p. 172 (Tongataboo [Tonga Islands]), lat. ⅛, alt. ½ in.; 1852, USEE, vol. 12, p. 49, pl. 3, fig. 48,a–b; 1862, Otia Conch., pp. 21, 243.

***gradatus, Trochus* [*Gibbula*]:** 1849, PBSNH, vol. 3, p. 91 (Pacific Islands), alt. ⅜, diam. ⅝ in.; 1852, USEE, vol. 12, p. 175, pl. 13, fig. 210,a–c; 1862, Otia Conch., pp. 56, 245. Figured holotype USNM 5610.

grata, Patella **Plate 19, figs. 1, 3**
1859, PBSNH, vol. 7, p. 161 (north shores of Niphon [Japan], Brooke), long. 30, lat. 24, alt. 14 mm.; 1862, Otia Conch., p. 115. Lectotype, here selected, USNM 1965. NPEE.

gravida, Odostomia: 1853, BJNH, vol. 6, p. 384, pl. 14, fig. 14 (Santa Barbara [California], E. Jewett), length ¼, diam. $\frac{1}{10}$ in.; 1862, Otia Conch., p. 186. Holotype MCZ 169180 *ex* NYSM 44, original nos. 24, A 3110, refigured by Dall and Bartsch, 1909, USNM Bull. 68, p. 212, pl. 25, fig. 7.

grisea* 'Stimpson' Gould, *Doris: 1870, Invert. Massachusetts, p. 232, pl. 20, figs. 292, 295 (on floating *Zostera* in Charles River [Cambridge, Massachusetts], Nov. 1842; and on *Fucus*, Chelsea Beach [Massachusetts], May 1865; on the underside of a *Fucus*-covered stone at East Boston Point [Massachusetts], W. Stimpson), length ½, breadth ⅛ in.

***gulosa, Helix* [*Serpentulus*]:** 1846, PBSNH, vol. 2, p. 165 (New South Wales), lat. $1\frac{1}{10}$, alt. ⅘, apert. ⅜ in.; 1852, USEE, vol. 12, p. 64, pl. 3, fig. 43,a–b (Illawarra [District], New South Wales [Australia], Drayton): "In the original description of this animal, it was supposed that it inhabited a different shell, which was there

named *H. pedestris*. An error has since been detected, and it is found that *H. gulosa* is the true shell." For a description of the animal see under *pedestris, Helix:* 1846, PBSNH, vol. 1, p. 166; 1862, Otia Conch., pp. 17, 243. 2 syntypes MCZ 169181 *ex* NYSM 244, original no. A 581, either might be the figured type; syntype MCZ 86829 *ex* BSNH 5569 from J. P. Couthouy; 3 syntypes USNM 21067, immature specimens.

guttula, Achatinella **[*Leptachatina*]:** 1847, PBSNH, vol. 2, p. 201, (Maui, Sandwich [Hawaiian] Islands), long. ⅛, lat. 3/16 in.; 1852, USEE, vol. 12, p. 89, pl. 7, fig. 98,a; 1862, Otia Conch., pp. 35, 244. Figured holotype USNM 5500; 22 paratypes MCZ 169182 *ex* NYSM 195, original no. A 1175; 2 paratypes MCZ 142956 *ex* Smithsonian Inst. (printed label).

harvardiensis **'Agassiz' Gould, *Alderia:*** 1870, Invert. Massachusetts, p. 254, pl. 16, figs. 226–228 (found in great numbers in brackish water at Cambridge [Massachusetts], April 1848, L. Agassiz), length about ½ in., breadth ⅓ as much.

helocoidea, Succinea: 1850, PBSNH, vol. 3, p. 193 (Liberia, G. H. Perkins), diam. ¼; alt. ½ in.; 1862, Otia Conch., p. 206.

helvola, Neritina: 1847, PBSNH, vol. 2, p. 238 (Feejee [Fiji] Islands), long. ⅝; lat. ⅝ in.; 1852, USEE, vol. 12, p. 165: ". . . is *Nerita turtoni* Recluz"; 1862, Otia Conch., p. 48.

hepaticus, Mytilus **[(*Modiola*)]:** 1850, PBSNH, vol. 3, p. 343 (Feejee [Fiji] Islands), long. 1¼, alt. ¾, lat. ⅝ in.; 1852, USEE, vol. 12, p. 454, pl. 41, fig. 563,a; 1862, Otia Conch., p. 93. Figured holotype USNM 18000; paratype USNM 611844 from same lot.

hepatizon, Helix **Plate 37, fig. 1**

1845, PBSNH, vol. 2, p. 38 (near mouth of Gaboon River, Liberia, C. J. Bates), lat. 1 3/10, alt. ⅘ in.; 1862, Otia Conch., p. 197. Measured holotype MCZ 169183 *ex* NYSM 282, original no. A 675.

herculanium **'Gould,' *Melania:*** 1875, 27th Ann. Rep. NYSM, p. 48 [nomen nudum].

herculea, Melania **[*Melanoides*]** **Plate 35, fig. 10**

1846, PBSNH, vol. 2, p. 100 (Tavoy River, British Burmah [Burma], F. Mason), long. 3, lat. 1 in.; 1862, Otia Conch., p. 199. Lectotype, here selected, MCZ 169436 *ex* NYSM 75, original no. A 3909; 17 paratypes MCZ 169437 and 2 paratypes USNM 611234 *ex* same NYSM lot and NYSM 76, original no. 580; 2 paratypes MCZ 87933 *ex* BSNH 3062.

hericius, Pecten: 1850, PBSNH, vol. 3, p. 345 (Straits of [Juan] De Fuca, Oregon [Washington]), long. 4½, alt. 1¼, lat. 4¾ in.; 1852, USEE, vol. 12, p. 457, pl. 42, fig. 570,a–c; 1862, Otia Conch., p. 95. Figured holotype USNM 5955.

hexagonum, Dentalium **Plate 22, fig. 4**

1859, PBSNH, vol. 7, p. 166 (Hong Kong [China], in shelly mud), long. 55 [45], diam. 4 mm.; 1862, Otia Conch., p. 119. Holotype USNM 2053; paratype MCZ 169184 *ex* NYSM 146, original no. G 2406. NPEE.

hirsutus, Planorbis **Plate 44, fig. 6**

1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 196 (Dorchester, Dedham, Cambridge [Massachusetts]), lat. 1/20, alt. 1/20 in.; 1841, Invert. Massachusetts, p. 206, fig. 135 (first found in Mansfield, Massachusetts by C. B. Adams, several localities in Dorchester, Dedham, and Cambridge); mentioned as being in Massachusetts State Cabinet no. 82 and BSNH 1278; 1862, Otia Conch., p. 180; 1870, Invert. Massachusetts, p. 493, fig. 744. Lectotype, here selected, MCZ 216629 *ex* BSNH 997, original no. 1278, 15 paratypes MCZ 225221 from same BSNH lot; 6 paratypes MCZ 216616 *ex* Massachusetts State coll.

histrica, Paludina **Plate 43, fig. 5**

1859, PBSNH, vol. 7, p. 41 (ditches in paddy field, Ousima [Amami-O-shima, Ryukyu Islands] and Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), dimens. 1 x 3/4, 1 1/4 x 7/10 in.; 1862, Otia Conch., p. 106. Lectotype, here selected, USNM 1151, presumably from former locality; paratype USNM 611836 from same lot. NPEE.

honesta, Helix **Plate 38, fig. 4**

1846, PBSNH, vol. 2, p. 99, (Tavoy, British Burmah [Burma], F. Mason), diam. 9/20, alt. 1/4 in.; 1862, Otia Conch., p. 198. Lectotype, here selected, MCZ 169185 *ex* NYSM 287, original no. A 578; 3 paratypes MCZ 169186 and paratype USNM 611222 from same NYSM lot; 2 paratypes MCZ 216822 *ex* BSNH 4369 from Gould.

horda, Anodon[ta]: 1855, PBSNH, vol. 5, p. 229 (Comanche Creek, Texas, T. H. Webb), long. 3 1/2, lat 1 1/2, alt. 1 5/8 in.; 1862, Otia Conch., p. 218. Lectotype, here selected, British Museum (Natural History) [not cataloged], figured by Sowerby, 1867, *in* Reeve, Conchologia Iconica, vol. 17, *Anodon*, pl. 18, fig. 66, as *Anodon hordeum*. This specimen undoubtedly was sent to H. Cuming by Gould.

housatonica* 'Linsley' Gould, *Anodonta: 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 234 (Connecticut), length 3 3/4, lat. 1 1/2, alt. 2 in.

humerosa, Melania: 1847, PBSNH, vol. 2, p. 219 (Manko [near Newville, Province of] Tavoy [Burma], Mrs. Vinton), long. 1 7/8, lat. 1/2 in.; 1862, Otia Conch., p. 200.

humerosa, Physa: 1855, PBSNH, vol. 5, p. 128 (Colorado Desert and at Pecos River, New Mexico, T. H. Webb and W. P. Blake), long. ½ ad 7/10, lat. ⅜ in.; 1855, *in* Blake, Appendix, Prel. Geol. Rep. R.R. Route to Pacific, p. 23; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 331, pl. 11, figs. 1–5; 1862, Otia Conch., p. 216. 4 syntypes USNM 50; 2 syntypes USNM 170780 *ex* I. Lea coll.; 10 syntypes MCZ 169187 *ex* NYSM 308, original no. A 2745.

humerosa, Succinea: 1846, PBSNH, vol. 2, p. 183 (Mts. of Taheiti [Tahiti]), long. ⅜, lat. ⅜, alt. ⅛ in.; 1852, USEE, vol. 12, p. 18, pl. 2, fig. 19,a (Tahiti, on wild sugarcane, at elevations of from 250 to 4000 feet, J. P. Couthouy); 1862, Otia Conch., pp. 28, 244. Figured holotype USNM 5419; paratype MCZ 169188, *ex* NYSM 181, original no. G 2651; paratype MCZ 155142 *ex* Smithsonian Inst. (printed label).

hybridus, Bulimus [***Otostomus***]: 1846, PBSNH, vol. 2, p. 191 (vicinity of Rio [de] Janeiro, Brazil, USEE), long. 1¾, lat. ⅝ in.; 1852, USEE, vol. 12, p. 77, pl. 6, fig. 86,a, as a synonym of *Bulimus egregius* Pfeiffer; 1862, Otia Conch., pp. 32, 244. Figured holotype USNM 5488.

hystrix **'Mighels' Pfeiffer,** ***Helix*** [***Pitys***]: 1846, Symbolae Ad Historiam Heliceorum, vol. 3, p. 67. New name for *Helix setigera* Gould 1844, not *H. setigera* Sowerby 1841. See under *setigera, Helix.*

ianthina, Margarita: 1861, PBSNH, vol. 8, p. 15 (Arctic Oceans), axis 8, diam. 20 mm.; 1862, Otia Conch., p. 153. NPEE.

ianthobaptus, Placobranchus: 1852, USEE, vol. 12, p. 307, pl. 26, fig. 407,a–c (coral reef at Honolulu, Oahu [Hawaiian Islands]), long. 2½, lat. ⅝ in.; 1862, Otia Conch., p. 230.

illotus, Cyclotus: 1859, PBSNH, vol. 6, p. 425 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), diam. 3, axis 1 in.; 1862, Otia Conch., p. 104. NPEE.

illumintata, Doris: 1841, Invert. Massachusetts, p. 4 (bathing house at Craigie's Bridge, Boston [Massachusetts]), length ¾, breadth ¼ in.; 1870, Invert. Massachusetts, p. 227: " . . . is *Polycera lessonii* D'Orbigny."

illuminata, Patella: 1846, PBSNH, vol. 2, p. 149 (Auckland Islands, Lt. Totten), long. 1½, lat. 1¼, alt. ⅜ in.; 1852, USEE, vol. 12, p. 340, pl. 28, fig. 441,a–b; 1862, Otia Conch., p. 7. Figured holotype USNM 5831.

imbricata, Hipponix [***Cochlolepas***]: 1846, PBSNH, vol. 2, p. 161 (Sandwich [Hawaiian] Islands), long. 13/32, lat. 11/32, alt. 5/32 in.; 1852, USEE, vol. 12, p. 379, pl. 32, fig. 490,a–c; 1862, Otia Conch., p. 16. Figured holotype USNM 5880.

imbricata, Rissoina **Plate 15, fig. 4**
1861, PBSNH, vol. 7, p. 400 (China Seas, W. Stimpson), axis 7, diam. 3 mm.; 1862, Otia Conch., p. 144. Measured holotype USNM 37350. NPEE.

imperator, Vitrina: 1859, PBSNH, vol. 6, p. 422 (Hong Kong [China], in ravines near summits of hills, W. Stimpson), axis ¾, diam. 1½ in.; 1862, Otia Conch., p. 101. Type lot USNM 1923, not found. NPEE.

improbus, Murex (***Ocinebra***): 1860, PBSNH, vol. 7, p. 328 (China Seas, in sand, 25 fathoms, W. Stimpson), axis 25, diam. 12 mm.; 1862, Otia Conch., p. 125. NPEE.

incanus, Chiton [***Maugeria***]: 1846, PBSNH, vol. 2, p. 145 (New South Wales [Australia], Mrs. Mitchell), long. 1$^{3}/_{10}$, lat. ¾ in.; 1852, USEE, vol. 12, p. 315, pl. 28, fig. 432,a; 1862, Otia Conch., p. 106. Figured holotype USNM 5823, plates only; 2 paratypes MCZ 169189 *ex* NYSM 168, original no. A 3129.

incisus, Fusus [***Neptunea***]: 1849, PBSNH, vol. 3, p. 141 (hab.?), long. 1¾, lat. ⅞ in.; 1852, USEE, vol. 12, p. 232, pl. 16, fig. 283,a (probably New Zealand); 1862, Otia Conch., pp. 64, 245. Figured holotype USNM 5681.

incompta, Rissoa: 1862, PBSNH, vol. 8, p. 280 (among coral sand, Florida, abundant), long. 2, lat. 1 mm.; 1862, Otia Conch., p. 238.

incomptus, Trophon **Plate 14, fig. 6**
1860, PBSNH, vol. 7, p. 329 (Hakodadi [Hakodate, Japan], W. Stimpson), axis 30, diam. 16 mm.; 1862, Otia Conch., p. 125. Lectotype, here selected, USNM 1659; 2 paratypes USNM 24136.

inculta, Bulla (**Tornatina**): 1855, *in* Blake, Appendix, Prel. Geol. Rep. R.R. Route to Pacific, p. 26 (San Diego [California]), length ⅛, breadth $^{1}/_{12}$ in.; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 334, pl. 11, figs. 27–28; 1856 [1857], Gould and Carpenter, Proc. Zool. Soc. London, p. 203.

inculta, Lucina [***Mysia***]: 1850, PBSNH, vol. 3, p. 255 (New Zealand), diam. ¾, lat. ⅜ in.; 1852, USEE, vol. 12, p. 412, pl. 36, fig. 524,a–b; 1862, Otia Conch., pp. 82, 246. 3 syntypes USNM 17722; 3 syntypes MCZ 175674 *ex* Smithsonian Inst. (printed label).

inculta, Peristernia: 1860, PBSNH, vol. 7, p. 328 (hab.?), axis 25, diam. 12 mm.; 1862, Otia Conch., p. 124. NPEE.

inculta, Siphonaria: 1846, PBSNH, vol. 2, p. 153 (New Zealand), long. $^{7}/_{10}$, lat. $^{11}/_{20}$, alt. ¼ in.; 1852, USEE, vol. 12, p. 358, pl. 30, fig. 465,a–b; 1862, Otia Conch., p. 11. Figured holotype USNM 5857; paratype MCZ 169190 *ex* NYSM 313, original no. A 2401.

indecorata, Helix **Plate 37, fig. 4**

1850, PBSNH, vol. 3, p. 194 (Liberia, G. A. Perkins), diam. ⅝, alt. ¼ in.; 1862, Otia Conch., p. 207. Lectotype, here selected, MCZ 11573, *ex* J. G. Anthony; paratype MCZ 225223 from same lot.

indolens* 'Couthouy' Gould, *Peronia: 1852, USEE, vol. 12, p. 290, pl. 20, fig. 382,a (Ilha do Pai, outside harbor, Rio de Janeiro [Brazil], J. P. Couthouy), length a little more than 1, breadth ⅛ in.; not in 1862, Otia Conch.

inepta, Monilea **Plate 4, fig. 2**

1861, PBSNH, vol. 8, p. 16 (Kagos[h]ima Bay [Japan], W. Stimpson), diam. 3 mm.; 1862, Otia Conch., p. 155. Measured holotype USNM 1372; paratype USNM 24240; paratype Redpath Mus. 2231.

inepta, Planaxis: 1861, PBSNH, vol. 7, p. 385 (Kikaia Bay [Kikaigashima, Ryukyu Islands], at low water mark, W. Stimpson), axis 4, diam. 2.5 mm.; 1862, Otia Conch., p. 140. NPEE.

inermis, Hyalaea: 1852, USEE, vol. 12, p. 487, pl. 51, fig. 604,a–c (from a figure by Mr. Dana, locality not mentioned), long. ⅞, lat. ⅝, alt. ⅝ in.; 1862, Otia Conch., p. 234.

infracinctus, Bulimus **Plate 41, fig. 11**

1850, PBSNH, vol. 3, p. 195 (Taboo and Fishtown, Liberia, G. A. Perkins), long. ⅝, lat. ⅜ in.; 1862, Otia Conch., p. 208. Lectotype, here selected, MCZ 169191 *ex* NYSM 203, original no. A 513; 14 paratypes MCZ 169192 and 3 paratypes USNM 611249 from same NYSM lot.

infrafasciatus* 'Gould,' *Bulimus: 1875, 27th Ann. Rep. NYSM, p. 51, error for *infracinctus, Bulimus.*

infrendens, Helix **Plate 38, fig. 11**

1843, PBSNH, vol. 1, p. 139 ([Tavoy,] British Burmah [Burma], F. Mason), diam. ⅝, alt. ⅛ in.; 1844, BJNH, vol. 4, p. 453, pl. 24, fig. 6; 1862, Otia Conch., p. 189. Lectotype, here selected, MCZ 169193 *ex* NYSM 283, original no. A 6461; 5 paratypes MCZ 169194 *ex* NYSM 265, original no. A 704 and paratype USNM 611224 from same NYSM lot; 2 paratypes MCZ 11588 *ex* J. G. Anthony from Gould; 3 paratypes USNM 106606 *ex* I. Lea coll. from Gould.

infumata, Helix **Plate 37, fig. 8**

1855, PBSNH, vol. 5, 127 (San Francisco, California, Dr. Bigelow), diam. 1½, axis ⅝ in.; 1862, Otia Conch., p. 215. Holotype MCZ 169195 *ex* NYSM 281, original no. A 5371; paratype USNM 8558.

infundibuliformis, Succinea: 1846, PBSNH, vol. 2, p. 186 (Mts. of Taheiti [Tahiti] and Eimeo [Moorea, Society Islands] at an elevation of 1000 to 2000 feet), long. 7/10, lat. 7/20 in.; 1852, USEE,

vol. 12, p. 19, pl. 2, fig. 26,a–d; 1862, Otia Conch., pp. 30, 242. Figured holotype USNM 5426; 2 paratypes MCZ 169198 *ex* NYSM 183, original no. G 2638. Localities not separated.

infuscatus, Ziziphinus **Plate 18, fig. 1**

1861, PBSNH, vol. 8, p. 19 (Kagos[h]ima Bay [Japan], W. Stimpson), axis 10, diam. 9 mm.; 1862, Otia Conch., p. 157. Measured holotype USNM 1348; 2 smaller paratypes USNM 24229; 4 paratypes MCZ 169196, NYSM 130, original no. G 2433.

inoscularis, Anodon[ta] **Plate 32, fig. 1**

1843, PBSNH, vol. 1, p. 160 (Salw[e]en River, British Burmah [Burma], F. Mason), long. 3, lat. 1¾, alt. 1⅛ in.; 1862, Otia Conch., p. 193. Lectotype, here selected, USNM 86352; half paratypes USNM 611826, both *ex* I. Lea coll. from Gould.

insignis, Clausilia **Plate 36, fig. 9**

1843, PBSNH, vol. 1, p. 140 ([Tavoy,] British Burmah [Burma], F. Mason), long. 1, lat. ⅛ in.; 1844, BJNH, vol. 4, p. 458, pl. 24, fig. 8; 1862, Otia Conch., p. 190. Lectotype, here selected, USNM 117120 *ex* I. Lea coll. from Gould.

insignis, Nucula (Acila) **Plate 23, fig. 5**

1861, PBSNH, vol. 8, p. 36 (dredged off east coast of Japan, lat. 37° and at Hakodadi [Hakodate], W. Stimpson), long. 15, alt. 12, lat. 8 mm.; 1862, Otia Conch., p. 175. Measured holotype USNM 1628; paratype USNM 611833 from same lot. Localities not separated. NPEE.

insignis, Ommastrephes: 1852, USEE, vol. 12, p. 480, pl. 49, fig. 594,a–n (Feejee [Fiji] Islands, Dr. Holmes), shell 8½ in. long and about ½ in. broad, the posterior 2 in. dilated into a paddle-shaped blade; 1862, Otia Conch., p. 233.

instabilis, Patella [Nacella]: 1846, PBSNH, vol. 2, p. 150 (Puget Sound [Washington]), long. 1½, lat. 1⁷⁄₂₀, alt. ⁹⁄₁₀ in.; 1852, USEE, vol. 12, p. 346, pl. 29, fig. 454,a (Oregon [Washington], Puget Sound; Classet [Indian tribe near Cape Flattery]); 1862, Otia Conch., pp. 9, 242. Figured holotype USNM 5844.

instrictus, Trochus (Monodonta) [Eucheles]: 1849, PBSNH, vol. 3, p. 107 (Pacific Islands), long. ⅜, lat. ³⁄₁₀ in.; 1852, USEE, vol. 12, p. 190, pl. 13, fig. 225,a–c; 1862, Otia Conch., pp. 59, 245. Figured holotype USNM 5625.

intaminata, Helix [(Callicochlias)]: 1852, USEE, vol. 12, p. 35, pl. 3, fig. 47 (from a tree, Island of Mangsi, Straits of Balabec), diam. 1, axis ⅔ in.; 1856, ibid., Addenda and Corrigenda, p. 500; 1862, Otia Conch., pp. 224, 244: "Probably *H. broderipii* Pfeiffer 1846=*Carac. dealbata* Broderip 1841." 4 specimens USNM 20449, 2 adults, 2 immature, collected by USEE and labeled *Helix broderipii*

Pfeiffer. This could be the type lot since the name may have been subsequently corrected.

intaminata, Mangelia **Plate 5, fig. 7**

1860, PBSNH, vol. 7, p. 339 (China Seas, W. Stimpson), axis 7, diam. 3 mm.; 1862, Otia Conch., p. 136. Lectotype, here selected, USNM 24214, original no. 402, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 576, pl. 51, figs. 10, 11. NPEE.

intercalaris, Triforis **Plate 13, fig. 4**

1861, PBSNH, vol. 7, p. 388 (China Seas, W. Stimpson), axis 6, diam. 1.5 mm.; 1862, Otia Conch., p. 143. Holotype Redpath Mus. 5222, original no. USNM 421 C. S. [China Seas]; another lot Redpath Mus. 5213, original no. USNM 245, specimen lost. NPEE.

intercalatum, Dentalium: 1859, PBSNH, vol. 7, p. 166 (China Seas, W. Stimpson), long. 18, diam. 2+ mm.; 1862, Otia Conch., p. 119. Holotype USNM 24183, figured by Pilsbry, 1897, Manual of Conchology, ser. 1, vol. 17, p. 23, pl. 11, figs. 88–89; paratype MCZ 169197 *ex* NYSM 148, original no. G 2408. NPEE.

interfilatus, Triforis **Plate 13, fig. 3**

1861, PBSNH, vol. 7, p. 388 (Hong Kong Harbor [China], W. Stimpson), axis 0.3; diam. .06+ in. [sic]; 1862, Otia Conch., p. 143. It is mentioned in the USNM catalog no. 505 that this species is a synonym of *Triforis corrugata* Hinds. Lectotype, here selected, Redpath Mus. 5221, original USNM 505; 5 paratypes Redpath Mus. 5221a. All the types are much larger than the original measurements, which are obviously misprinted.

interstinctus, Bulimus **Plate 40, fig. 5**

1843, PBSNH, vol. 1, p. 158 (Cape Palmas, Liberia [ibid., p. 153], Drs. Savage and Perkins), long. 1¾, lat. 7/10 in.; 1862, Otia Conch., pp. 192, 210. Lectotype, here selected, MCZ 169199 *ex* NYSM 190, original no. A 6258; paratype MCZ 169200 from same NYSM lot; 4 paratypes MCZ 169201 *ex* NYSM 191, original no. A 4575, and paratype USNM 611240 from same NYSM lot.

interstinctus, Chiton (Leptochiton): 1852, USEE, vol. 12, p. 322, pl. 27, fig. 423,a–b (Puget Sound, Oregon [Washington]), long. ½, lat. 3/10 in.; 1862, Otia Conch., pp. 230, 243. Figured holotype USNM 5814.

intorta* Carpenter, *Olivella: 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 207. See Palmer, 1958, Geol. Soc. Amer. Mem., no. 76, p. 219.

invaginatum, Cerithium: 1849, PBSNH, vol. 3, p. 120 (Feejee [Fiji] Islands), long. ⅞ lat. ¼ in.; 1852, USEE, vol. 12, p. 146, pl. 10, fig. 169,a–b; 1856, ibid., Addenda and Corrigenda) p. 502: ". . . is *C. planum* Philippi [Anton] 1839"; 1862, Otia Conch., pp.

61, 245. Holotype USNM 5569; 2 paratypes MCZ 216593 *ex* Smithsonian Inst. (printed label).

involuta, Achatina [***Subulina***] **Plate 42, fig. 1**
1843, PBSNH, vol. 1, p. 158 (Cape Palmas, Liberia [ibid., p. 153], Drs. Savage and Perkins), long. 1$\frac{1}{10}$, lat. ¼ in.; 1862, Otia Conch., p. 192. Lectotype, here selected, MCZ 169202 *ex* NYSM 196, original no. A 1209; 12 paratypes MCZ 169203 and 2 paratypes USNM 611242 from same NYSM lot; 10 paratypes MCZ 155975 *ex* C. B. Adams coll. from G. A. Perkins.

iota, Chemnitzia **Plate 19, fig. 5**
1861, PBSNH, vol. 7, p. 406 (hab.?), axis 2+, diam. 0.7 mm.; 1862, Otia Conch., p. 151. Holotype USNM 389, from Port Jackson [New South Wales, Australia]. NPEE.

irradiata, Helix (***Nanina***) [***Parthena***]: 1846, PBSNH, vol. 3, p. 178 (New Holland [Australia]), lat. ¼, alt. ⅜ in.; 1852, USEE, vol. 12, p. 34, pl. 5, fig. 65,a–c (Bay of Islands, New Zealand, Brackenridge); 1862, Otia Conch., pp. 25, 244. Figured holotype USNM 5467.

irrorata, Peronia: 1852, USEE, vol. 12, p. 291, pl. 21, fig. 383,a–b (in tide pools, Bay of Islands, New Zealand), long. 1, lat. ½, alt. ¼ in.; 1862, Otia Conch., p. 226.

irroratum, Cerithium: 1849, PBSNH, vol. 3, p. 119 (hab.?), length ¾, breadth ⅝ in.; 1852, USEE, vol. 12, p. 148, pl. 10, fig. 168,a; 1862, Otia Conch., p. 61. Figured holotype USNM 5568; paratype MCZ 169206, *ex* NYSM 55, original no. G 2570 from California; paratype MCZ 216587 *ex* Smithsonian Inst. (printed label).

jacksoni, Nucula [***Leda***]: 1841, Invert. Massachusetts, p. 102, fig. 65 (landslip at Pride's Bridge, Presumscott River, Westbrook, Maine, Sept. 1837; Augusta [Maine], C. T. Jackson), length 1, height 1$\frac{1}{20}$, breadth ⅝ in.; 1862, Otia Conch., p. 181; 1870, Invert. Massachusetts, p. 163, fig. 469 [genus changed to *Leda*]: "The shell, known to me as a fossil only, proves to be living abundantly in more northern seas."

jacobaeus, Chiton [(***Leptochiton***)] **Plate 22, fig. 3**
1859, PBSNH, vol. 7, p. 164 (Simoda [Shimoda, Japan], W. Stimpson), long. 12, lat. 5 mm.; 1862, Otia Conch., p. 117. Measured holotype USNM 2078; paratype USNM 24127, reduced to plates. NPEE.

jaculanda, Mitra **Plate 4, fig. 5**
1860, PBSNH, vol. 7, p. 332 (China Seas, W. Stimpson), axis 8, diam. 2.5 mm.; 1862, Otia Conch., p. 129. Measured holotype USNM 24198, original no. 403. NPEE.

janthinum, Cerithium: 1849, PBSNH, vol. 3, p. 121 (Clermont Tonnere [Reao Island, Tuamotu Islands], J. P. Couthouy), long. ⅜, lat. 3/10 in.; 1852, USEE, vol. 12, p. 152, pl. 10, fig. 173,a–b; 1862, Otia Conch., p. 63. Figured holotype USNM 5573.

***Japonia*, new genus:** 1859, PBSNH, vol. 6, p. 426. 1862, Otia Conch., p. 105. Type species: *Cyclostoma barbata* Gould, 1859, not Pfeiffer 1855, selected by Kobelt, 1878, Illustrirtes Conchylienbuch, vol. 2, p. 200. Changed to *Japonia gouldii* Kobelt, 1902.

japonicus, Aesopus **Plate 12, fig. 9**

1860, PBSNH, vol. 7, p. 383 (Kagos[h]ima Bay [Japan], at 5 fathoms, sandy bottom, W. Stimpson), axis 7, diam. 2 mm.; 1862, Otia Conch., p. 138. Measured holotype MCZ 169208 *ex* NYSM 336, original no. A 6317. NPEE.

***jaspideus, Chiton* [*Onythochiton*]:** 1846, PBSNH, vol. 2, p. 143 (Callao [Peru]), long. 1, lat. 7/10 in.; 1852, USEE, vol. 12, p. 325, pl. 27, fig. 414,a; 1862, Otia Conch., pp. 4, 242. Figured holotype USNM 5806.

jejuna, Cylindrella: 1848, PBSNH, vol. 3, p. 41 (Florida, J. Bartlett), long. ⅖, lat. 1/10 in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 310, pl. 69, fig. 3; 1862, Otia Conch., p. 205. Lectotype, here selected, USNM 119170 *ex* I. Lea coll. from Gould, figured by Pilsbry, 1946, Land Mollusca of North America, vol. 2, pt. 1, p. 107, fig. 52g; 3 paratypes MCZ 169207 *ex* NYSM 227, original no. A 6462.

jewettii* Carpenter, *Marginella: 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 207. See Palmer, 1958, Geol. Soc. Amer. Mem. no. 75, p. 221.

jucundus, Clanculus **Plate 19, fig. 7**

1861, PBSNH, vol. 8, p. 17 (Sydney, New South Wales [Australia]), axis and diam. 5 mm.; 1862, Otia Conch., p. 156. Measured holotype USNM 24203, original no. 322. NPEE.

Supposed syntype, figured by Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 277, pl. 17, fig. 45.

***jucundus, Trochus* [*Gibbula*]:** 1849, PBSNH, vol. 3, p. 91 (New Zealand [corrected to: Rio de Janeiro, Brazil]), long. ⅖, alt. ⅜ in.; 1852, USEE, vol. 12, p. 177, pl. 12, fig. 209,a–c; 1862, Otia Conch., pp. 56, 245. Figured holotype USNM 5609; paratype MCZ 38059 *ex* BSNH 3941 labeled "Rio Janeiro, Brazil."

***jugosus, Chiton* [*Lophyrus*]:** 1846, PBSNH, vol. 2, p. 142 (New South Wales [Australia], Mrs. Mitchell), long. 1, lat. ⅜ in.; 1852, USEE, vol. 12, p. 317, pl. 28, fig. 430; 1862, Otia Conch., pp. 3, 242. Figured holotype USNM 5821.

***Julia*, new genus:** 1862, PBSNH, vol. 8, p. 283. Type species: *Julia exquisita* Gould, by monotypy; 1862, Otia Conch., p. 241.

***junceus, Bulimus* [*Stenogyra*]:** 1846, PBSNH, vol. 2, p. 191 (Society and Sandwich [Hawaiian] Islands), long. 3/10, lat. 1/10 in.; 1852, USEE, vol. 12, p. 76, pl. 6, fig. 87,a–b (Tahiti and Eimeo [Moorea, Society Islands)]; 1862, Otia Conch., pp. 32, 244. Figured holotype USNM 5489; 3 paratypes MCZ 169204 *ex* NYSM 205 and 206, original nos. 2140 and G 2573 from Sandwich Islands; 30 paratypes MCZ 169209 *ex* NYSM 202, original no. 1152 from Oahu, Hawaiian Islands; paratype MCZ 216795 *ex* Smithsonian Inst. (printed label).

***labecula, Mangelia* [(*Astyris*)]:** 1862, PBSNH, vol. 8, p. 281 (dredged off the coast of Georgia), axis 7, diam. 3 mm.; 1862, Otia Conch., p. 238.

labilis, Helix **Plate 38, fig. 7**

1859, PBSNH, vol. 6, p. 422 (Hakodadi [Hakodate, Japan], among dead leaves, in woods, W. Stimpson), axis 1/10, diam. 1/8 in.; 1862, Otia Conch., p. 101. Lectotype, here selected, USNM 24209, original no. 1678. NPEE.

labiosa, Helix **Plate 37, fig. 9**

1846, PBSNH, vol. 2, p. 165 (Astoria, Oregon), lat. 1/10, alt. 1/10 in.; 1851, *in* A. Binney, Terr. Moll. U. S., vol. 2, p. 170, pl. 13a, fig. 1; 1852, USEE, vol. 12, p. 67, pl. 3, fig. 35,a–b (Oregon, at Astoria and Fort George, on the Columbia River, Pickering and Drayton); 1862, Otia Conch., pp. 16, 243: ". . . is *H. columbiana* Lea." Not *Helix labisoa*, O. F. Müller, 1774, changed by Pilsbry, 1940, Land Mollusca of North America, vol. 1, pt. 2, p. 899, to *Vespericola columbiana latilabrum*. Possible figured holotype MCZ 169210 *ex* NYSM 279, original no. A 5393; paratype USNM 5435 reduced to fragments.

lacertina, Euthrya: 1860, PBSNH, vol. 7, p. 327 (Simon's Bay, Cape of Good Hope, W. Stimpson), axis 25, diam. 10 mm.; 1862, Otia Conch., p. 123. NPEE.

lacertinum, Cerithium **Plate 11, fig. 4**

1861, PBSNH, vol. 7, p. 386 (Sydney Harbor [New South Wales, Australia], W. Stimpson), axis 13, diam. 4 mm.; 1862, Otia Conch., p. 141. Measured holotype USNM 16571, original no. 273. NPEE.

***lacertinum, Polydonta* (*Infundibulum*)** **Plate 9, fig. 9**

1861, PBSNH, vol. 8, p. 19 (Hong Kong Harbor [China], W. Stimpson), diam. et axis 25 mm.; 1862, Otia Conch., p. 158. Measured holotype USNM 24888, original no. 629. The specimen figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23,

p. 563, pl. 50, figs. 1–2, is the largest one of 4 paratypes in MCZ 169211 *ex* NYSM 128, original G 2420, and is not, as he claims, the USNM type. The holotype he meant to figure is, here figured, USNM 24888, original no. 629. NPEE.

lachrimula, Marginella (Gibberula): 1862, PBSNH, vol. 8, p. 281 (dredged in 400 fathoms off the coast of Georgia), axis 1.5, diam. 1 mm.; 1862, Otia Conch., p. 238. Type lot, original no. G 2699, listed as lost in 1875, 27th Ann. Rep. NYSM, p. 13.

lachryma* 'Gould,' *Pupa: 1875, 27th Ann. Rep. NYSM, p. 51 [nomen nudum].

laciniatus, Turbo: 1849, PBSNH, vol. 3, p. 90 (Manila), lat. ¾, alt. ⅝ in.; 1852, USEE, vol. 12, p. 174, pl. 12, fig. 204,a–c; 1856, ibid., Addenda and Corrigenda, p. 503: "A series of specimens, recently brought from New Caledonia, has shown that the specimen here described is a very young one"; 1862, Otia Conch., pp. 55, 245. Type in USNM lost, teste P. P. Carpenter circa 1862. Ideotype MCZ 169443 *ex* NYSM 125, original no. A 3312, labeled "New Caledonia."

lacinulata* 'Couthouy' Gould, *Bursatella: 1852, USEE, vol. 12, p. 223, pl. 16, fig. 269,a (Harbor of Rio [de] Janeiro [Brazil], J. P. Couthouy), length 2½ in.: "A single specimen was found"; not in 1862, Otia Conch.

lactaria, Pupa (Siphonostoma) **Plate 39, fig. 1**

1843, BJNH, vol. 4, p. 491, pl. 24, fig. 13 (Mantanzas, Cuba [J. Bartlett]), length ⅝, breadth ⅜₀ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 309, pl. 69, fig. 2. Lectotype, here selected, MCZ 169212 *ex* NYSM 223; original no. A 1736; paratype USNM 611256 from same NYSM lot; paratype MCZ 26656 *ex* J. G. Anthony from Gould.

lacunosa, Clathurella **Plate 5, fig. 4**

1860, PBSNH, vol. 7, p. 338 (Hong Kong Harbor [China], in 10 fathoms, shelly bottom, W. Stimpson), axis 5, diam. 2.5 mm.; 1862, Otia Conch., p. 135. Probable measured holotype USNM 24176, original no. 525 labeled "China Seas." NPEE.

laeta, Cylichna **Plate 7, fig. 1**

1859, PBSNH, vol. 7, p. 140 (Kagos[h]ima, [Japan] W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 112. Measured holotype USNM 1373; paratype USNM 612332. NPEE.

laeta, Helix **Plate 38, fig. 6**

1859, PBSNH, vol. 6, p. 422 (Hakodadi [Hakodate, Japan], on bushes and shrubs, W. Stimpson), axis 1, diam. 1¼ in.; 1862, Otia Conch., p. 101. Lectotype, here selected, USNM 24110; 2 paratypes 169214 *ex* NYSM 246, original no. A 561. NPEE.

laetus, Pectin: 1850, PBSNH, vol. 3, p. 345 (New Zealand), long. 1⅛, alt. ⅜, lat. 1¾ in.; 1852, USEE, vol. 12, p. 456, pl. 42, fig. 571,a–b; 1862, Otia Conch., p. 95. Figured holotype USNM 5956.

laetus, Pectin **Plate 21, fig. 8**

1861, PBSNH, vol. 8, p. 39 (Hakodadi [Hakodate] Bay [Japan], in shelly mud, 10 fathoms, W. Stimpson), long. 3.5, alt. 3.75, lat. 1.5 in.; 1862, Otia Conch., p. 177. Measured holotype MCZ 169229 *ex* NYSM 381, original no. 1634; 6 paratypes MCZ 169230 and paratype USNM 611260 from same NYSM lot and NYSM 379, 382, original nos. A 4549, A 5937. Not *Pectin laetus* Gould, 1850. Changed to *Chlamys farreri nipponensis* Kuroda, 1932, Venus, vol. 3, pt. 2, p. 91, Illustrated Catalogue of Japanese Shells [separately paged appendix]. NPEE.

laevigata, Nucula: 1838, Rep. Comm. Zool. Surv. State, Massachusetts House Doc. no. 72, p. 107 [nomen nudum]; 1841, Invert. Mass., p. 101.

Though claimed to have been described in Silliman's Amer. Journ. Sci., this was not done. It is actually a nude name listed as a synonym of *Nucula sapotilla* Gould (q.v.).

lagena* 'Gould' Carpenter, *Purpura: 1864, Rep. British Assn. Adv. Sci. 1863, p. 532 [nomen nudum]: ". . . is probably *saxicola* var."

lagenula, Chaena: 1861, PBSNH, vol. 8, p. 22 (Hong Kong Harbor [China], 10 fathoms, shelly sand, W. Stimpson), long. 12, lat. 6, alt. 3 mm.; 1862, Otia Conch., p. 161. Ideotype MCZ 169215 *ex* NYSM 338, original no. G 2963 labeled "Burmah."

lambata, Arthemis: 1850, PBSNH, vol. 3, p. 277 (Bay of Islands, New Zealand), long. 1, alt. 9/10, lat. ½ in.; 1852, USEE, vol. 12, p. 422, pl. 37, fig. 536,a (drawn up on the anchor at the Bay of Islands, New Zealand, Archer). Syntype USNM 5921, one valve of which is in fragments.

lanceata, Limnea [sic] **Plate 20, fig. 10**

1848, PBSNH, vol. 3, p. 64 (North Shore of Lake Superior, "Pic Lake," L. Agassiz), long. ⅘, lat. ¼ in.; 1850, *in* Agassiz, Lake Superior, p. 245, pl. 7, figs. 8, 9; 1862, Otia Conch., p. 206. Lectotype, here selected, MCZ 169216 *ex* NYSM 302, original no. A 3030; paratype MCZ 169217 and paratype USNM 611259 from same NYSM lot; paratype MCZ 216622 *ex* L. Agassiz.

laqueata, Cerithiopsis **Plate 10, fig. 7**

1861, PBSNH, vol. 7, p. 387 (China Seas, W. Stimpson), axis 8, diam. 2 mm.; 1862, Otia Conch., p. 142. Lectotype, here selected, USNM 24098, original no. 505b, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 570, pl. 50, fig. 44. NPEE.

lateralis, Pelex: 1852, USEE, vol. 12, p. 153, pl. 11, fig. 176,a–d (streams near Wangarara [Whangarei, 30 miles south of Cape Brett, New Zealand]; and at the falls of Waitanga [Waitangi, Chatham Islands], New Zealand), length 3/10, breadth 1/5, height 1/8 in.; 1862, Otia Conch., p. 224: ". . . is *Latia neritoides* Gray, probably." Figured holotype USNM 5576; paratype USNM 20607; 4 paratypes MCZ 169219 *ex* NYSM 116, 117, original nos. C68, A6048.

lateralis* 'Couthouy' Gould, *Siphonaria: 1846, PBSNH, vol. 2, p. 153 (Burnt Island, Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego]), long. 3/5, lat. 2/5, alt. 1/5 in.; 1852, USEE, vol. 12, p. 363, pl. 30, fig. 364,a–b; 1862, Otia Conch., p. 11. Measured holotype USNM 5853, figure enlarged; 5 paratypes MCZ 216828 *ex* Smithsonian Inst. (printed label).

lauta, Succinea **Plate 43, fig. 7**

1859, PBSNH, vol. 6, p. 422 (on shrubbery at Hakodadi [Hakodate, Japan], W. Stimpson), long. 5/10, lat. 3/10 in.; 1862, Otia Conch., p. 101. Lectotype, here selected, USNM 24129 original no. 1558; 10+ paratypes MCZ 169220 *ex* NYSM 185, original no. G 2572. NPEE.

***lauta, Tellina* [*Angulus*]:** 1850, PBSNH, vol. 3, p. 252 (hab.?), long. 7/10, alt. 3/10 in.; 1852, USEE, vol. 12, p. 408, pl. 35, fig. 514,a–b; 1862, Otia Conch., pp. 79, 246 ("Loo Choo" [Okinawa, Ryukyu Islands]). Figured holotype USNM 5901, figure 544a [sic] represents shell life size.

lautus, Bulimus: 1856, PBSNH, vol. 6, p. 12 (mountains near Quito, Equador, J. P. Couthouy), length 1, breadth 1/2 in.; 1862, Otia Conch., p. 219.

lenticula, Collonia **Plate 14, fig. 7**

1861, PBSNH, vol. 8, p. 21 (China Seas, W. Stimpson), diam. 4, axis 2 mm.; 1862, Otia Conch., p. 160. Measured holotype USNM 24196, original no. 400, figured by Yen, 1944. Proc. California Acad. Sci., ser. 4, vol. 23, p. 566, pl. 50, figs. 32, 33. NPEE.

lenticula, Lucina: 1850, PBSNH, vol. 3, p. 256 (coast of Patagonia?), diam. 3/5, lat. 3/10 in.; 1852, USEE, vol. 12, p. 413, pl. 36, fig. 528,a–b (probably from Rio [de] Janeiro [Brazil]); 1862, Otia Conch., p. 83. Type not in USNM in 1863, teste Carpenter, 1864, Rep. British Assn. Adv. Sci. 1863, p. 697 [reprint p. 165].

Gould's name dates from June 1850; therefore, *Lucina lenticula* Reeve, August 1850, Conchologia Iconica, vol. 6, *Lucina*, pl. 11, fig. 67, is a homonym and, if valid, requires a new name.

lenticula, Margarita **Plate 20, fig. 8**

1861, PBSNH, vol. 8, p. 15 (seashore, Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 3, diam. 5 mm.; 1862, Otia Conch., p. 154. Measured holotype USNM 977; paratype USNM 24162. NPEE.

leonina, Chioraera: 1852, USEE, vol. 12, p. 310, pl. 26, fig. 404,a–b (dredged at Port Discovery, Puget Sound [Washington], 3 fathoms, Mr. Dyer), long. 5, lat. 1¼, alt. 1, diam. capitis 1⅝ in.; 1862, Otia Conch., p. 230.

lepida, Gibbula **Plate 20, fig. 7**

1861, PBSNH, vol. 8, p. 21 (New Ireland [Bismarck Archipelago], W. Stimpson), diam. 5, axis 4 mm. Lectotype, here selected, USNM 2045; smaller paratype USNM 24226; 10 paratypes MCZ 169221 *ex* NYSM 141, original no. A 2914; 3 paratypes MCZ 38129 *ex* BSNH 3938 from W. Stimpson. NPEE.

lepida, Limnea **[sic]:** 1847, PBSNH, vol. 2, p. 211 (Lake Vancouver, Oregon [Washington]), long. ⅜, lat. ¼ in.; 1852, USEE, vol. 12, p. 121, pl. 9, fig. 141,a; 1862, Otia Conch., p. 41. Syntype USNM 5541, specimen damaged.

lepida, Littorina: 1849, PBSNH, vol. 3, p. 83 (Puget Sound, Oregon [Washington], Pickering), long. ⅜, lat. ⅜ in.; 1852, USEE, vol. 12, p. 199, pl. 14, fig. 238,a–c; 1862, Otia Conch., p. 52. 2 syntypes USNM 5637, both smaller than fig. type; 4 syntypes MCZ 169222 *ex* NYSM 82, original no. G 2565.

lepida, Marginella (Glabella) **Plate 4, fig. 3**

1860, PBSNH, vol. 7, p. 384 (China Seas, W. Stimpson), axis 3, diam. 2 mm.; 1862, Otia Conch., p. 139. Measured holotype USNM 24184, original no. 440. NPEE.

lepida, Siphonaria: 1846, PBSNH, vol. 2, p. 154 (Rio [de] Janeiro [Brazil]), long. 9/10, lat. 7/10, alt. 3/10 in.; 1852, USEE, vol. 12, p. 360, pl. 30, fig. 466,a–c; 1862, Otia Conch., p. 11. Figured holotype USNM 5858.

lepidus, Bulimus: 1856, PBSNH, vol. 6, p. 12 (Mergui Islands [Burma], J. Benjamin), axis ⅞, diam ½ in.; 1862, Otia Conch., p. 219.

lepidus, Chiton **[(*Lepidopleura*)]:** **Plate 22, fig. 2**

1859, PBSNH, vol. 7, p. 164 (China Sea, lat. 24° N., W. Stimpson), long. 13, lat. 9 mm.; 1862, Otia Conch., p. 118. Lectotype, here selected, USNM 1865; paratype USNM 24263 is reduced to plates.

lepidus, Unio **Plate 31, fig. 1**

1856, PBSNH, vol. 6, p. 15 (Lake Monroe, Florida, H. Bryant), long. 2¾, lat. 1, alt. 1½ in.; 1862, Otia Conch., p. 222. Probable measured holotype, here selected, lectotype MCZ 169223 *ex* NYSM 266, original no. A 5170.

leporina, Helix: 1848, PBSNH, vol. 3, p. 39 (Mississippi and Arkansas, J. Bartlett), diam. ⅛, alt. ⅛ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 199, pl. 40a, fig. 1; 1862, Otia Conch., p. 203. Syntype USNM 39254 *ex* W. G. Binney Coll. labeled

"Dr. A. Gould, Type. White Rock Springs, Arkansas." Syntype MCZ 169218 *ex* NYSM 274, original no. A 6419, may be the figured type.

Pilsbry, 1940, Land Mollusca of North America, vol. 1, pt. 2, p. 613, restricts the type locality to White Rock Springs, Arkansas.

***Leptachatina*, new group:** 1847, PBSNH, vol. 2, p. 201. Type species: *Leptachatina acuminata* Gould, by monotypy. See Cooke *in* Pilsbry, 1911, Manual of Conchology, ser. 2, vol. 21, p. 1.

leucophaea, Erato **Plate 7, fig. 7**

1853, BJNH, vol. 6, p. 386 (Santa Barbara [California], E. Jewett), length ¼, breadth ⅛ in.; 1862, Otia Conch., p. 189. Measured holotype MCZ 169224 *ex* NYSM 28, original no. A 4277; paratype USNM 611280 from same NYSM lot.

***lewisii, Natica* [*Lunatia*]:** 1847, PBSNH, vol. 2, p. 239 (Puget Sound [Washington]), axis 4½ to 5, lat. 4 in.; 1852, USEE, vol. 12, p. 211, pl. 15, fig. 253,a (Discovery Harbor, Puget Sound, Oregon [Washington], Pickering); 1856, ibid., Addenda and Corrigenda, p. 503; 1862, Otia Conch., pp. 49, 244. Probable figured holotype USNM 3903 labeled "Puget Sound, Mr. Brown, USEE"; 3 paratypes MCZ 169444, *ex* NYSM 35a, original no. A 5747.

liberianus, Vaginulus: 1850, PBSNH, vol. 3, p. 193 (Liberia, G. A. Perkins), long. 2, lat. ½ in.; 1862, Otia Conch., p. 206.

libertina, Melania **Plate 44, fig. 3**

1859, PBSNH, vol. 7, p. 42 (Simoda [Shimoda] and Ousima [Amami-O-shima, Ryukyu Islands], in sluggish streams and ditches, W. Stimpson), long. 1¼, lat. ½ in.; 1862, Otia Conch., p. 107. Lectotype, here selected, USNM 2120, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 568, pl. 50, figs. 40, 41, from Ousima; paratype MCZ 86938 *ex* BSNH 3101 from W. Stimpson; 2 paratypes Redpath Mus. 4261 *ex* Smithsonian Inst. labeled "Simoda."

ligata, Alvania **Plate 12, fig. 2**

1861, PBSNH, vol. 7, p. 402 (dredged in Hong Kong Harbor [China], W. Stimpson), axis 4, diam. 1 mm.; 1862, Otia Conch., p. 146. Probable measured holotype, here selected, lectotype USNM 948, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 567, pl. 50, fig. 12, 13; paratype MCZ 169225 *ex* NYSM 93, original no. G 2467. NPEE.

***ligatus, Trochus* [*Ziziphinus*]:** 1849, PBSNH, vol. 3, p. 91 (Puget Sound, Oregon [Washington], Case), alt. ¾, lat. ⅞ in.; 1852, USEE, vol. 12, p. 185, pl. 12, fig. 207,a–b; 1856, ibid., Addenda and Corrigenda, p. 503; 1862, Otia Conch., pp. 55, 245. Figured holotype USNM 5608.

lignosus, Chiton **[Chaetopleura]:** 1846, PBSNH, vol. 2, p. 142 (Puget Sound [Washington]), long. 1½, lat. ⅞ in.; 1852, USEE, vol. 12, p. 330: "There can be little doubt that this is *Chiton merckii* Middendorff"; 1856, ibid., Addenda and Corrigenda, p. 508: ". . . for 'Middendorff' read 'Wosnesenski,' and refer to fig. 424"; 1862, Otia Conch., p. 3. Measured holotype USNM 5815; paratype MCZ 169226 *ex* NYSM 166, original no. A 6360 from Smithsonian Inst. (printed label).

lilacina, Doris **[*Actinodoris*]:** 1852, USEE, vol. 12, p. 297, pl. 22, fig. 392,a–b (Honolulu, Sandwich [Hawaiian] Islands), long. 3½, lat. 1¼ in.; 1862, Otia Conch., p. 228.

lilacina, Nassa: 1852, USEE, vol. 12, p. 265, pl. 19, fig. 336,a (found on a coral ledge, Clermont Tonnerre [Reao], Paumoto [Tuamotu] Islands), long. ⅝, lat. ¼ in.; 1862, Otia Conch., p. 225. Figured holotype USNM 5731; 2 paratypes MCZ 216621 *ex* Smithsonian Inst. (printed label).

limpida, Vitrina: 1850, *in* Agassiz, Lake Superior, p. 243 (Cape Gourganne [northern Lake Superior]); no measurements; 1851, *in* Binney, Terr. Moll. U.S., vol. 2, p. 58, pl. 67a, fig. 1; not in 1862, Otia Conch.

lineolaris, Cantharidus **Plate 11, fig. 5**
1861, PBSNH, vol. 8, p. 18 (Sydney, New South Wales [Australia], W. Stimpson), axis 7, diam. 4 mm.; 1862, Otia Conch., p. 157. Lectotype, here selected, USNM 24161, original no. 300. NPEE.

lineolata, Columbella **Plate 8, fig. 14**
1860, PBSNH, vol. 7, p. 335 (Hong Kong [China], axis 10, diam. 4 mm.; 1862, Otia Conch., p. 132. Probable holotype, here selected, lectotype USNM 24199, original no. 562, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 572, pl. 51, fig. 5. NPEE.

lineolatus, Planaxis: 1849, PBSNH, vol. 3, p. 118 (Wilson's Island [Manihi], Pauomoto [Tuamotu] Islands), axis ¼, diam. ⅛ in.; 1852, USEE, vol. 12, p. 203, pl. 15, fig. 251,a–b; 1862, Otia Conch., p. 60. Type lot, original no. A 3485, listed as lost in 1875, 27th Ann. Rep. NYSM, p. 13.

lineolatus, Stylocheilus: 1852, USEE, vol. 12, p. 225, pl. 16, fig. 270,a (on a reef at Honolulu, Oahu [Hawaiian Islands], Pickering), long. 3½ in.; 1862, Otia Conch., p. 227.

lingulata, Crepidula: 1846, PBSNH, vol. 2, p. 160 (Puget Sound, Oregon [Washington], diam. ½, alt. ⅜ in.; 1852, USEE, vol. 12, p. 376, pl. 32, fig. 481,a–c; 1862, Otia Conch., p. 15. Figured holotype USNM 5871.

lirata, Odostomia **Plate 9, fig. 4**
1861, PBSNH, vol. 7, p. 404 (China Seas, W. Stimpson), axis 8.5, diam. 4 mm.; 1862, Otia Conch., p. 148. Measured holotype USNM 585 labeled "Hong Kong Harbor, China."

***liratus* 'Couthouy' Gould, *Fusus* [*Trophon*]:** 1849, PBSNH, vol. 3, p. 141 (dredged at Orange Harbor [located on west side of Bahía, Nassau, Tierra del Fuego], 15 fathoms), long. ¾, lat. ⅜ in.; 1852, USEE, vol. 12, p. 231, pl. 16, fig. 282, a–b; 1862, Otia Conch., pp. 64, 245. Figured holotype USNM 5680; paratype MCZ 216581 *ex* Smithsonian Inst. (printed label).

***lituus, Pupa* (*Siphonostoma*) [*Cylindrella*]:** 1842, BJNH, vol. 4, no. 1, back cover ([Coliseo,] Cuba [J. Bartlett]); 1843, PBSNH, vol. 1, p. 138: ". . . is *Cylindrella elegans* Pfeiffer"; 1862, Otia Conch., p. 183. 4 syntypes MCZ 247280 *ex* Gould from the T. Bland coll., original no. 119; 5 syntypes MCZ 26726 *ex* J. Bartlett; 4 ideotypes MCZ 169227 *ex* NYSM 220, original no. A 1761, labeled "Haiti, Dr. Wienland."

livida, Ervilia **Plate 23, fig. 2**
1861, PBSNH, vol. 8, p. 28 (Kagos[h]ima Bay [Japan], in sand, 5 fathoms, W. Stimpson), long. 7, alt. 4, lat. 3 mm.; 1862, Otia Conch., p. 166. Measured holotype USNM 1304; half smaller paratype USNM 24058. NPEE.

lobata, Elysia: 1852, USEE, vol. 12, p. 308, pl. 26, fig. 405,a (creeping on coral stems like a small *Doris*, at Honolulu [Oahu, Hawaiian Islands]), long. 1 in.; 1862, Otia Conch., p. 230.

loculosa, Gibbula: 1861, PBSNH, vol. 8, p. 21 (False Bay, Cape of Good Hope, W. Stimpson), axis 6, diam. 7 mm.; 1862, Otia Conch., p. 159. Lectotype, here selected, USNM 221, figured by Bartsch, 1915, USNM Bull. 91, p. 153, pl. 23, figs. 1–3; paratype USNM 24228. NPEE.

loculosa, Liotia **Plate 5, fig. 12**
1859, PBSNH, vol. 7, p. 141 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 2, diam. 5 mm.; 1862, Otia Conch., p. 114. Measured holotype USNM 1010; smaller paratype USNM 24211.

longinqua, Amnicola: 1855, PBSNH, vol. 5, p. 130 (Colorado Desert (Cienaga Grande) [Imperial Co., California], W. P. Blake); 1855, *in* Blake, Appendix, Prel. Geol. Rep. R.R. Route to Pacific, p. 24; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 333, pl. 11, figs. 10, 11, long. ⅛, lat. 1/10 in.; 1862, Otia Conch., p. 217. Possible holotype MCZ 189153 *ex* W. G. Binney; 25 paratypes MCZ 2106 *ex* R. E. Call coll. from W. P. Blake; 3 paratypes USNM 121121 *ex* I. Lea coll. from W. P. Blake; 3 paratypes USNM 3847a *ex* W. P. Blake.

loricata, Helix [***Anchistoma***]: 1846, PBSNH, vol. 2, p. 165 (California), lat. ¼, alt. 3/10 in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 145, pl. 29a; 1852, USEE, vol. 12, p. 68, pl. 3, fig. 39,a–c (Sacramento River, California, Pickering); 1856, ibid., Addenda and Corrigenda, p. 501; 1862, Otia Conch., pp. 17, 243. Figured holotype USNM 5439; 3 paratypes MCZ 169228 *ex* NYSM 261, original no. A 5351.

lota, Cythara **Plate 14, fig. 2**

1860, PBSNH, vol. 7, p. 339 (China Seas, W. Stimpson), axis 5, diam. 3 mm.; 1862, Otia Conch., p. 135. Probable holotype, here selected, lectotype USNM 413, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 575, pl. 51, figs. 16, 23. NPEE.

lubrica, Tellina: 1861, PBSNH, vol. 8, p. 28 (Hakodadi [Hakodate] Bay [Japan], in sandy mud, 6 fathoms, W. Stimpson), long. 14, alt. 9, lat. 4 mm.; 1862, Otia Conch., p. 167. Type lot USNM 1688 not found. NPEE.

lubrica, Theora **Plate 25, fig. 5**

1861, PBSNH, vol. 8, p. 24 (Hakodadi [Hakodate] Bay [Japan], very common in mud, 6 fathoms, W. Stimpson), long. 11, alt. 7, lat. 3 mm.; 1862 Otia Conch., p. 162. Lectotype, here selected, USNM 1685; 2 paratypes USNM 611840 from same lot. Paratypes G 2501 listed as lost in 1875, 27th Ann. Rep. NYSM, p. 13. NPEE.

***Lucia,* new genus:** 1862, PBSNH, vol. 8, p. 283. Type species: *Chiton confossa* Gould, by monotypy; 1862, Otia Conch., p. 240. See Pilsbry, 1892, Manual of Conchology, ser. 2, vol. 14, p. 211.

lucida, Lutraria **Plate 28, fig. 7**

1861, PBSNH, vol. 8, p. 29 (Kagos[h]ima [Japan], W. Stimpson), long. 40, alt. 20, lat. 8 mm.; 1862, Otia Conch., p. 168. Lectotype, here selected, USNM 1317. In the original description, mention is made that a specimen in the collection of H. Cuming (now in the British Museum, Natural History) was larger than those collected by the NPEE. The measurements are probably those of the Cuming specimen. NPEE.

lucida, Rhynconella: 1860, PBSNH, vol. 7, p. 323 (dredged off Japan Coast [sic], 30°35′ N., 130°40′ E., in 110 fathoms, sand, by Capt. Stevens of the *Hancock*), diameters about ¼ in.; 1862, Otia Conch., p. 120. NPEE.

lucida, Segmentina **Plate 36, figs. 5, 6**

1859, PBSNH, vol. 7, p. 41 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), alt. 1/10, lat. ¼ in.; 1862, Otia Conch., p. 106. Lectotype, here selected, USNM 24243, original no. 834, figured by

Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 581, pl. 51, figs. 54, 55. NPEE.

lucidum, Lepton: 1861, PBSNH, vol. 8, p. 33 (Hong Kong Harbor [China], W. Stimpson), long. 9, alt. 6, lat. 3 mm.; 1862, Otia Conch., p. 172. NPEE.

lucidus, Sigaretus: 1861, PBSNH, vol. 8, p. 14 (taken with the animal in the North China Seas, W. Stimpson), long. 10, lat. 7, alt. 2 mm.; 1862, Otia Conch., p. 153. NPEE.

luctuosa, Patella: 1846, PBSNH, vol. 2, p. 150 (New Zealand), long. 1¼, lat. 1, alt. ½ in.; 1852, USEE, vol. 12, p. 336, pl. 29, fig. 446,a–b; 1862, Otia Conch., pp. 8, 242: " . . . may be *P. margaritaria* Chem." Figured holotype USNM 5836; paratype MCZ 216766 *ex* Smithsonian Inst. (printed label).

lugubris, Bankivia **Plate 12, fig. 10**

1861, PBSNH, vol. 8, p. 18 (Sydney, New South Wales [Australia], W. Stimpson), axis 12, diam. 6 mm.; 1862, Otia Conch., p. 157. Lectotype, here selected, USNM 24238, original no. 278. NPEE.

lugubris, Chiton [(***Lophyrus***)]: 1859, PBSNH, vol. 7, p. 163 (hab.?), long. 25, lat. 15 mm.; 1862, Otia Conch., p. 116. 2 syntypes USNM 2075. NPEE.

Pilsbry, 1893, Manual of Conchology, ser. 1, vol. 15, p. 87, says of these types, "*Chiton lugubris* Gould, of which the types are before me, is merely a young *australis*, not eroded, and showing conspicuously the smooth, microscopically granulate space around each beak. As one of the type specimens is dismembered and the other is curled, I have figured a young *australis* from the Academy collection to illustrate this form."

lumbalis, Succinea: 1846, PBSNH, vol. 2, p. 183 (Kauai, Sandwich [Hawaiian] Islands), long. 5/20, lat. 5/20, alt. 4/20 in.; 1852, USEE, vol. 12, p. 17, pl. 2, fig. 18,a–b (Mauna Kea, Hawaii; Kauai, Sandwich [Hawaiian] Islands, J. P. Couthouy); 1862, Otia Conch., pp. 28, 244. Figured holotype USNM 5418; 9 paratypes MCZ 169231 *ex* NYSM 177, original no. G 2646.

lunella, Macoma **Plate 27, fig. 1**

1861, PBSNH, vol. 8, p. 29 (China Seas, lat. 24° N., 25 fathoms, W. Stimpson), long. 10, alt. 8, lat. 6 mm.; 1862, Otia Conch., p. 167. Measured holotype USNM 1248; paratype USNM 611838 from same lot. NPEE.

lurida, Avicula: 1850, PBSNH, vol. 3, p. 310 (New Zealand), long. 2½, alt. 2¼, lat. ¾ in.; 1852, USEE, vol. 12, p. 441, pl. 39, fig. 551,a–b [not *Avicula fucata;* the names were transposed]; 1862, Otia Conch , p. 91. Figured holotype USNM 5936; paratype MCZ 87266 *ex* BSNH 835; 2 paratypes 216810 *ex* Smithsonian Inst. (printed label).

***lurida, Helix* [*Hemiplecta*]:** 1846, PBSNH, vol. 2, p. 179 (Feejee [Fiji] Islands), lat. 1, alt. ½ in.; 1852, USEE, vol. 12, p. 31, pl. 5, fig. 68,a–b; 1862, Otia Conch., p. 25. Figured holotype USNM 5470; 2 paratypes MCZ 161287 *ex* Smithsonian Inst. (printed label).

lurida, Nassa: 1849, PBSNH, vol. 3, p. 153 (Tutuilla, Samoa Islands), long. 7/10, lat. ⅜ in.; 1852, USEE, vol. 12, p. 257, pl. 19, fig. 325,a–b; 1862, Otia Conch., p. 68. Figured holotype USNM 5721; 4 paratypes MCZ 216608 *ex* Smithsonian Inst. (printed label).

lutea, Mangelia: 1860, PBSNH, vol. 7, p. 340 (Loo Choo Seas [off Ryukyu Islands], W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 137. Type lot USNM 24130 original no. 1037 not found; specimen in Redpath Mus. 8450 labeled "from type, Kikaiga, W. Stimpson." NPEE

luteola* 'Couthouy' Gould, *Doris: 1852, USEE, vol. 12, p. 295, pl. 22, fig. 389,a–d (kelp off Burnt Island, Orange Harbor [located on the west side of Bahía Nassau, Tierra del Fuego], J. P. Couthouy,) length 2½, breadth 1 in.; not in 1862, Otia Conch.

luteola, Succinea: 1848, PBSNH, vol. 3, p. 37 (Texas, J. Bartlett), long. ½, lat. ¼ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 75, pl. 67c, fig. 1 (Florida . . . . Texas . . . . region of Galveston); 1862, Otia Conch., p. 202. 4 syntypes MCZ 156362 labeled "Galveston, Texas" *ex* BSNH from C. B. Adams coll.; 1 syntype MCZ 167480 labeled "Texas" *ex* A. F. Gray coll. from T. Bland coll. from Gould.

luteolabrum, Cardium: 1851, PBSNH, vol. 4, p. 91 (San Diego [California], T.P. Green), long. 3¼, alt. 3, lat. 2¼ in.; 1853, BJNH, vol. 6, p. 401; 1862, Otia Conch., p. 213.

luteus, Tectarius **Plate 17, fig. 4**

1861, PBSNH, vol. 8, p. 14 (China Seas, W. Stimpson), axis 6, diam. 4 mm., 1862, Otia Conch , p. 153. Lectotype, here selected, MCZ 169232 *ex* NYSM 87, original no. G 2526, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 566, pl. 50, figs. 42, 43; paratype USNM 611201 from same NYSM lot. NPEE.

lutosa, Melania: 1847, PBSNH, vol. 2, p. 223 (Upolu, Samoa Islands, J. P. Couthouy), lat. ½, alt. 1¾ in.; 1852, USEE, vol. 12, p. 136, pl. 10, fig. 159,a–c; 1862, Otia Conch., pp. 45, 244. Figured holotype USNM 5559; 7 paratypes MCZ 169257 *ex* NYSM 72, 73 original no. G 2395; paratype MCZ 216803 *ex* Smithsonian Inst. (printed label).

lutulentus, Unio: 1850, PBSNH, vol. 3, p. 295 (New Zealand, Drayton), long. 2, alt. 1, lat. ⅝ in.; 1852, USEE, vol. 12, p. 428, pl. 37, fig. 542,a–c; 1862, Otia Conch., p. 88. Figured holotype USNM 5927, refigured by McMichael and Hiscock, 1958, Austra-

lian Journ. of Marine and Freshwater Research, vol. 9, p. 462, pl. 14, figs. 4–7. The type was confirmed as lectotype and the locality restricted to Bay of Islands, New Zealand; 2 paratypes MCZ 169256 *ex* NYSM 639, original no. A 6406.

lycopodina, Doto: 1870, Invert. Massachusetts, p. 237 [nomen nudum]. Listed as a synonym of *Doto coronata* Gmelin.

lyrata* 'Couthouy' Gould *Helix: 1846, PBSNH, vol. 2, p. 167 (Tierra del Fuego), lat. ⅛, alt. 1/20 in.; 1852, USEE, vol. 12, p. 39, pl. 3, fig. 34,a–c (Orange Harbor [located on the west side of Bahía Nassau, Tierra del Fuego], J. Couthouy); 1862, Otia Conch., p. 19. Syntype MCZ 88297 *ex* BSNH from J. P. Couthouy.

***lyrata, Pupa* [*Vertigo*]** **Plate 40, fig. 3**

1843, PBSNH, vol. 1, p. 139 (One [Oahu] of the Sandwich [Hawaiian] Islands), long. 2/200, lat. 1¾00 in.; 1844, BJNH, vol. 4, pl. 16, fig. 16; 1862, Otia Conch., p. 189. Figured holotype MCZ 169233 *ex* NYSM 219, original no. G 2687, refigured by Pilsbry and Cooke, 1920, Manual of Conchology, ser. 2, vol. 25, p. 235, pl. 19, fig. 4; paratype MCZ 169234 from same NYSM lot, ibid., fig. 5. See Pilsbry and Cooke for a discussion of this species.

lyrata, Rissoina: 1861, PBSNH, vol. 7, p. 401 (Kikaia [Kikaiga-shima] and Ousima [Amami-O-shima, both Ryukyu Islands], W. Stimpson), axis 6, diam. 2.5 mm.; 1862, Otia Conch., p. 145. NPEE.

lyrata, Succinea: 1859, PBSNH, vol. 7, p. 40 (near the seashore, Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis ⅛, diam. ¼ in.; 1862, Otia Conch., p. 105. NPEE.

lyratus, Paxillus **Plate 39, fig. 5**

1859, PBSNH, vol. 7, p. 138 (Loo Choo Islands [Ryukyu Islands]), axis 3, diam. 1.5 mm.; 1862, Otia Conch., p. 110. Lectotype, here selected, MCZ 169235 *ex* NYSM 314, original no. G 2527; paratype MCZ 169236 and paratype USNM 611200 from same NYSM lot.

***Lyrodus*, new genus:** 1870, Invert. Massachusetts, p. 34. Type species: *Teredo chlorotica* Gould, by monotypy.

***Machaera*, new genus:** 1841, Invert. Massachusetts, p. 32. Species listed: *Machaera nitida* Gould and *Solen costata* Say; 1870, Invert. Massachusetts, p. 45.

mactracea* 'Linsley' Gould, *Astarte: 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 233, figs. 1–2 (Connecticut, J. H. Linsley), lat. ¼, alt. ¼ in. Described from a single valve.

maculata, Avicula: 1850, PBSNH, vol. 3, p. 309 (Tutuilla, Samoa Islands), long. 1¾, alt. 1¾, lat. ⅝ in.; 1852, USEE, vol. 12, p. 443, pl. 39, fig. 549,a–b [as *Avicula pica*—see note under same]; 1862,

Otia Conch., p. 90. Figured holotype USNM 5934, exteriorly figured valve.

magellanica, Margarita: 1852, USEE, vol. 12, p. 192, pl. 14, fig. 228,a–c (Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego], J. P. Couthouy), axis ⅝, diam. ⅝ in.; 1862, Otia Conch., p. 225.

magellanica, Succinea: 1846, PBSNH, vol. 2, p. 185 (Tierra del Fuego), long. ⅓, lat. ⅜ in.; 1852, USEE, vol. 12, p. 24, pl. 2, fig. 22,a–c (abundant in moist places around Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego], J. P. Couthouy). Figured holotype USNM 5422; 2 paratypes MCZ 169237 *ex* NYSM 174, original no. G 2642; paratype MCZ 216609 *ex* Smithsonian Inst. (printed label).

mahogani, Cyclostoma [***Chondropoma***]: 1842, BJNH, vol. 4, no. 1, back cover (Cuba [J. Bartlett]); 1843, PBSNH, vol. 1, p. 138: "... is *Cyclostoma sagra* D'Orbigny and *C. pictum* Pfeiffer"; 1862, Otia Conch., p. 183.

manuana, Succinea: 1846, PBSNH, vol. 2, p. 185 (Manua), long. ⅓, lat. 1.5 in.; 1852, USEE, vol. 12, p. 25, pl. 2, fig. 23,a–b (Manua Island, near the Society [Samoan] Islands, J. P. Couthouy); 1862, Otia Conch., p. 29. Figured holotype USNM 5423; 2 paratypes MCZ 216597 *ex* Smithsonian Inst. (printed label).

manubius, Unio **Plate 32, fig. 5**

1855, PBSNH, vol. 5, p. 229 (Chihuahua [Mexico], sixty miles from Camp Ringgold, T. H. Webb), long. 3¾, alt. 1⅞, lat. 1¼ in.; 1862, Otia Conch., p. 218. Measured holotype MCZ 169447 *ex* NYSM 685, original no. A 6409; paratype MCZ 169448 from same NYSM lot; paratype USNM 85709 *ex* I. Lea coll. from Gould.

marcida, Mactra: 1850, PBSNH, vol. 3, p. 216 (Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego]), long. 2¾, alt. 2¼, lat. 1½ in.; 1852, USEE, vol. 12, p. 392, pl. 33, fig. 505,a–b; 1862, Otia Conch., p. 76. Figured holotype USNM 5892.

marcida, Vitrina: 1846, PBSNH, vol. 2, p.181 (Madeira, Roche de Empena; height of 4200 feet, J. P. Couthouy), diam. 2 7/10, alt. 7/10 in.; 1852, USEE, vol. 12, p. 7, pl. 1, fig. 12,a–c; 1856, ibid., Addenda and Corrigenda, p. 500: "Albers declares this to be the dead of immature *V. nitida*, while the animals are very different"; 1862, Otia Conch., pp. 26, 244. Figured holotype USNM 5412.

marcidus, Trochus [***Chlorostoma***]: 1853, BJNH, vol. 6, p. 381, pl. 14, fig. 11 (Monterey [California], T. P. Green), axis ⅞, diam. of base 1⅛ in.; 1862, Otia Conch., p. 185.

marginata* 'Couthouy' Gould, *Peronia: 1852, USEE, vol. 12, p. 292, pl. 22, fig. 386,a–e (mouth of Orange Harbor [located on west side

of Bahía Nassau, Tierra del Fuego], J. P. Couthouy), length ¾ in.; not in 1862, Otia Conch.

marmorata, Achatinella: 1847, PBSNH, vol. 2, p. 200 (at foot of Mt. Haleakala, Maui, Sandwich [Hawaiian] Islands, Drayton and Brackenridge), long. ⅞, lat. ½ in.; 1852, USEE, vol. 12, p. 85, pl. 7, fig. 94,a; 1862, Otia Conch., p. 34. 2 syntypes USNM 5496 slightly smaller than measured type.

maxillata, Helix: 1848, PBSNH, vol. 3, p. 38 (Tennessee, J. Bartlett), diam. ¼ in.; 1851, *in* Binney, Terr. Moll. U.S., vol. 2, p. 157, pl. 40a, fig. 2; 1862 Otia Conch., p. 203. Specimens under this name, MCZ 169238 *ex* NYSM 249, original no. A 5409; MCZ 169239 and USNM 611279 from same NYSM lot. Dr. J. P. E. Morrison (in letter) says that these specimens do not agree with the original description. "As the type locality 'Tennessee' originally assigned for *maxillatum* was clearly erroneous, Dr. Archer proposes to select Columbus, Georgia, as type locality." Pilsbry, 1940, Land Mollusca of North America, vol. 1, pt. 2, p. 675.

megalocyathus* 'Couthouy' Gould, *Octopus: 1852, USEE, vol. 12, p. 471, pl. 45, fig. 586 (bis), a–d (near the shore, Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego], Lt. Alden), length of head to eyes 2.7, of body 7.5, of arms 34, circumference of body 11, of arms 3, breadth of umbrella 8, of largest cupule 1.3 in.; 1862, Otia Conch., p. 231.

megathorax* 'Gould' Sowerby, *Teredo: 1875, *in* Reeve, Conchologia Iconica, vol. 20, *Teredo*, pl. 2, fig. 8 (North America). Shells only—probably *T. megotara* Hanley, teste R. D. Turner.

melampoides, Cylichna **Plate 8, fig. 11**

1859, PBSNH, vol. 7, p. 140 (China Seas, W. Stimpson), axis 4, diam. 2 mm.; 1862, Otia Conch., p. 113. Probable measured holotype, here selected, lectotype USNM 419, figured by Yen 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 579, pl. 51, figs. 43, 44. NPEE.

***mellita, Pupa* [*Torquilla*]** **Plate 39, fig. 3**

1846, PBSNH, vol. 2, p. 99 (Tavoy in hortis, British Burmah [Burma], F. Mason), long. 9/40, lat. 3/40 in.; 1862, Otia Conch., p. 198. Probable measured holotype, here selected, lectotype MCZ 169240 *ex* NYSM 212, original no. A 6058; paratype MCZ 169241 and paratype USNM 611223 from same NYSM lot.

mendica, Mactra: 1851, PBSNH, vol. 4, p. 88 (Mazatlan [Mexico], T. P. Green), long. 1⅛, lat. ½, alt. ⅝ in.; 1853 BJNH, vol. 6, p. 393, pl. 15, fig. 4; 1862, Otia Conch., p. 211. Authentic topotype [metatype] USNM 130899 *ex* W. Rich, figured by Dall, 1894, Proc. USNM, vol. 17, p. 102, pl. 7, fig. 2.

mendica, Nassa [***Caesia***]: 1850, PBSNH, vol. 3, p. 155 (Puget Sound, Nisqually, etc.), long. ⅛, lat. ⅜ in.; 1852, USEE, vol. 12, p. 263, pl. 19, fig. 331,a (Nisqually [near present site of Tacoma, Washington], Port Discovery, etc.; Puget Sound [Washington], Pickering); 1862, Otia Conch., pp. 70, 245. Figured holotype USNM 5727; paratype MCZ 169243 *ex* NYSM 19, original no. G 2556 from Nisqually; 5 paratypes MCZ 159242 *ex* NYSM 18, original no. G 2965 from Puget Sound.

microstoma, Achatinella **Plate 41, fig. 6**

1845, PBSNH, vol. 2, p. 28 (Sandwich [Hawaiian] Islands), long. ⅜, lat. 7/20 in.; 1862, Otia Conch., p. 196: ". . . is *Helix textilis* Férussac." Lectotype, here selected, MCZ 169244 *ex* NYSM—original no. A 1167 labeled "Oahu"; 10 paratypes MCZ 169245 and 2 paratypes USNM 611217 from same NYSM lot.

milium, Pupa [***Vertigo***]: 1840, BJNH, vol. 3, p. 402, pl. 3, fig. 23 (Oak Island, Chelsea, [Massachusetts], Nov. 1839, on fallen leaves), length less than 1/30, breadth 1/40 in.; 1841, Invert. Massachusetts, p. 187, fig. 118. Mentioned as being in Massachusetts State Cabinet no. 92 and BSNH 1140, and that Prof. C. B. Adams had found it in Vermont, but these specimens lost; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 402, pl. 3, fig. 23; 1870, Invert. Mass., p. 441, fig. 702 [genus changed to *Vertigo*].

mimus, Octopus: 1852, USEE, vol. 12, p. 473, pl. 46, fig. 587 (bis) a–e (Callao, Peru), length of body 3.5, breadth 2, length of dorsal arms 14; upper lateral 18; lower lateral 20; ventral 15; diam. of largest cupules ⅜ in.; 1862, Otia Conch., p. 231.

miniata, Tellina: 1851, PBSNH, vol. 4, p. 90 (San Juan [Orange County, California], T. P. Green), long. 2, lat. ⅝, alt. 1¼ in.; 1853, BJNH, vol. 6, p. 397, pl. 16, fig. 1; 1862, Otia Conch, p. 212. Figured holotype MCZ 169258 *ex* NYSM 348, original no. A 249.

minuscula, Columbella [(***Anachis***)] **Plate 8, fig. 2**

1860, PBSNH, vol. 7, p. 334 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 4, diam. 1.5 in.; 1862, Otia Conch., p. 131. Lectotype, here selected, USNM 2025; 4 smaller paratypes USNM 24171; 3 paratypes MCZ 189246 *ex* NYSM 31, original no. G 2463; paratype MCZ 216607 *ex* Smithsonian Inst. (printed label). NPEE.

minuta, Columbella [(***Anachis***)] **Plate 8, fig. 7**

1860, PBSNH, vol. 7, p. 334 (China Seas, W. Stimpson), axis 2.5, diam. 1 mm.; 1862, Otia Conch., p. 130. Probable holotype, here selected, lectotype USNM 24231, original no. 397, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 572, pl. 51, figs. 12, 13. NPEE.

modesta, Eutropia: 1861, PBSNH, vol. 8, p. 18 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 10, diam. 6 mm.; 1862, Otia Conch., p. 157. NPEE.

modesta, Rissoina **Plate 13, fig. 7**

1861, PBSNH, vol. 7, p. 401 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 5, diam. 2.25 mm.; 1862, Otia Conch., p. 145. Measured holotype USNM 1040. NPEE.

modesta, Succinea: 1856, PBSNH, vol. 2, p. 186 (Upolu), long. ⅛, lat. ⅞ in.; 1852, USEE, vol. 12, p. 23, pl. 2, fig. 24,a-c (Tahiti and Eimeo [Moorea], Society Islands, and Upolu, Samoa Islands); 1862, Otia Conch., p. 29. Syntype USNM 5424, smaller than figured type; 2 syntypes MCZ 181926 *ex* Smithsonian Inst. (printed label).

modestum, Cyclostrema **Plate 14, fig. 10**

1859, PBSNH, vol. 7, p. 142 (Hong Kong [China], W. Stimpson), diam. 4, axis 2 mm.; 1862, Otia Conch , p. 115. Lectotype, here selected, USNM 24107, original no. 448, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 565, pl. 50, figs. 22, 23. NPEE.

modestus, Fusus **Plate 6, fig. 5**

1860, PBSNH, vol. 7, p. 327 (Hakodadi [Hakodate, Japan], in 10 fathoms, shelly sand, W. Stimpson), axis 25, diam. 6 mm.; 1862, Otia Conch., p. 124. Lectotype, here selected, USNM 1649; smaller paratype USNM 24173; paratype Redpath Mus. 8451. NPEE.

modica, Pupa [***Modicella***]**:** 1848, PBSNH, vol. 3, p. 40 (Florida, J. Bartlett), long. 1/10, lat. 1/15 in.; 1851, *in* Binney, Terr. Moll. U.S., vol. 2, p. 319, pl. 52, fig. 2; 1862, Otia Conch., p. 215.

mollis, Octopus: 1852, USEE, vol. 12, p. 479, pl. 48, fig. 592,a–b (Tutuilla, Samoa Islands), long. 3 in.; 1862, Otia Conch., p. 233.

mollis, Pisania **Plate 9, fig. 11**

1960, PBSNH, vol. 7, p. 327 (Simoda [Shimoda, Japan], W. Stimpson), axis 22, diam. 12 mm.; 1862, Otia Conch., p. 124. Lectotype, here selected, MCZ 187742 *ex* Smithsonian Inst. (printed label) figured by Clench, 1952, Rev. Soc. Malacol. "Carlos de la Torre," vol. 9, p. 5, text fig. NPEE.

moniliferus, Bulimus: 1846, PBSNH, vol. 2, p. 99 (Tavoy, British Burmah [Burma], F. Mason), long. 1⅕, lat. 7/10 in.; 1862, Otia Conch., p. 198.

mordax, Ostrea: 1850, PBSNH, vol. 3, p. 346 (Feejee [Fiji] Islands), long. 2, lat. 1 in.; 1852, USEE, vol. 12, p. 464, pl. 43, fig. 575,a; 1862, Otia Conch., p. 96. Figured syntypes USNM 5958; syntype MCZ 178593 *ex* Smithsonian Inst. (printed label).

morosus, Bulimus [***Charis***]: 1846, PBSNH, vol. 2, p. 190 (Feejee [Fiji] Islands), long. 1¾, lat. 1 in.; 1852, USEE, vol. 12, p. 72, pl. 6, fig. 82,a; 1862, Otia Conch., p. 31, 244. Syntype USNM 20256, slightly smaller than figured type; 3 syntypes MCZ 26088 *ex* Smithsonian Inst. (printed label).

morrhuana* 'Linsley' Gould, *Cythera: 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 233 (Connecticut): ". . . seems to be quite a young and small specimen of *C. convexa* Say" (Gould).

mucidus, Bulimus: 1850, PBSNH, vol. 3, p. 194 (interior of Liberia, G. A. Perkins), axis 1⅜, lat. ¾ in.; 1862, Otia Conch, p. 207.

mucronatus, Melampus: 1852, USEE, vol. 12, p. 204, pl. 14, fig. 242,a–b (Raraka Island, Pauomoto [Tuamotu] Islands), long. 7/10, lat. 7/10 in.; not in 1862, Otia Conch. Figured holotype, USNM 5641; 3 paratypes MCZ 216814 *ex* Smithsonian Inst. (printed label).

Gould claims that this species was originally described, in 1849, PBSNH, vol. 3, but it was not done.

multicolor, Helicina: 1847, PBSNH, vol. 2, p. 202 (Tongataboo, [Tonga Islands]), lat. 9/10, alt. 1/10 in.; 1852, USEE, vol. 12, p. 100, pl. 7, fig. 110,a–c (Tahiti and Eimeo [Moorea, Society Islands], J. P. Couthouy); 1862, Otia Conch., p. 36. Figured holotype USNM 5512; paratype MCZ 216797 *ex* Smithsonian Inst. (printed label).

munda, Cleodora [(***Creseis***)]: 1852, USEE, vol. 12, p. 489, pl. 51, fig. 607,a–b (found in the equatorial Atlantic and figured by Mr. Dana), long. ¼ in.; 1862, Otia Conch., p. 235.

munda, Mesodesma [***Paphia***]: 1850, PBSNH, vol. 3, p. 217 (Mangsi Island [Strait of Balabac]), long. ¾, alt. ⅝, lat. 7/10 in.; 1852, USEE, vol. 12, p. 400, pl. 35, fig. 511,a–b [as *mundum*]; 1862, Otia Conch., pp. 77, 245. Figured holotype USNM 5898; half paratype MCZ 169248 *ex* NYSM 355, original no. G 2156.

mundum, Triton: 1849, PBSNH, vol. 3, p. 143 (Tutuilla, Samoa Islands), long. ⅞, lat. ⅝ in.; 1856, USEE, vol. 12, Addenda and Corrigenda, p. 506, pl. 17, fig. 297,a–b; 1862, Otia Conch., p. 66. Lectotype, here selected, USNM 5695, fig. 297; paratype USNM 612311, fig. 297a–b; paratype MCZ 169249 *ex* NYSM 5, original no. A 427.

muscaria, Atys **Plate 12, fig. 8**

1859, PBSNH, vol. 7, p. 138 (China Seas, W. Stimpson), axis 4, diam. 2 mm.; 1862, Otia Conch., p. 111. Lectotype, here selected, USNM 334 (though labeled "?type"), figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 578, pl. 51, figs. 40, 41. NPEE.

muscosus, Chiton [***Chaetopleura***]: 1846, PBSNH, vol. 2, p. 145 (Puget Sound, Oregon [Washington]), long. 2, lat. 1⅛ in.; 1852, USEE, vol. 12, p. 313, pl. 28, fig. 436; Otia Conch., pp. 6, 242. Figured holotype USNM 5827; 2 ideotypes MCZ 169250 *ex* NYSM 167, original no. G 1904 from E. Jewett labeled "Panama."

musiva, Cyclostoma [***Japonia***] **Plate 41, fig. 10**

1859, PBSNH, vol. 6, p. 425 (hab.?, probably Japan), axis ¼, diam. ⅛ in.; 1862, Otia Conch., p. 104. Lectotype, here selected, MCZ 169253 *ex* NYSM 328, original no. A 5853; paratype MCZ 169254, from same NYSM lot. Both specimens were previously figured by Yen, 1941, Nautulus, vol. 55, p. 42, pl. 3, fig. 8, 8a.

musiva, Gibbula **Plate 6, fig. 1**

1861, PBSNH, vol. 8, p. 21 (Simon's Bay [Cape of Good Hope], W. Stimpson), diam. 6 mm.; 1862, Otia Conch., p. 159. Lectotype, here selected, MCZ 169251 *ex* NYSM 138, original G 2437; 2 paratypes MCZ 225215 from same NYSM lot; 11 paratypes USNM 144. NPEE.

musiva, Helicina: 1847, PBSNH, vol. 2, p. 201 (Manua and Upolu [Samoan Islands], among bananas, J. P. Couthouy), lat. 3/10, alt. 1/10 in.; 1852, USEE, vol. 12, p. 98, pl. 7, fig. 107,a–b; 1862, Otia Conch., p. 36. Figured holotype USNM 5509; 2 paratypes MCZ 216624 *ex* Smithsonian Inst. (printed label).

musiva, Margarita **Plate 5, fig. 11**

1861, PBSNH, vol. 8, p. 15 (Hong Kong Harbor [China], 10 fathoms, shelly gravel, W. Stimpson), axis 6, diam. 5.2 mm.; 1862, Otia Conch., p. 153. Probable measured holotype, here selected, lectotype USNM 536, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 564, pl. 50, figs. 8, 9; paratype USNM 31126; 2 paratypes MCZ 169252 *ex* NYSM 142, original no. G 2440. NPEE.

musiva, Nassa: 1850, PBSNH, vol. 3, p. 153 (Cape de Verde [Islands]), long. ⅛, lat. 3/10 in.; 1852, USEE, vol. 12, p. 256, pl. 19, fig. 324,a; 1862, Otia Conch., p. 68. Syntype USNM 5720, smaller than figured specimen; syntype MCZ 216627 *ex* Smithsonian Inst. (printed label).

musiva, Nerita: 1847, PBSNH, vol. 2, p. 238 (hab.?), axis ½, lat. ⅝ in.; 1852, USEE, vol. 12, p. 165, pl. 11, fig. 197,a; 1862, Otia Conch., p. 49. Figured holotype USNM 5597; paratype MCZ 143378, *ex* Smithsonian Inst. (printed label).

mustelina, Margarita **Plate 5, fig. 10**

1861, PBSNH, vol. 8, p. 15 (Hakodadi [Hakodate] Bay [Japan], at low water, W. Stimpson), diam. 4, axis 3+ mm.; 1862, Otia Conch., p. 154. Lectotype, here selected, USNM 31124. NPEE.

mustelina, Nassa **Plate 16, fig. 2**

1860, PBSNH, vol. 7, p. 331 (Ousima [Amami-O-shima, Ryukyu Islands], off the coast, in 2 fathoms, coarse clean sand, W. Stimpson), axis 12, diam. 8 mm.; 1862, Otia Conch., p. 127. Measured holotype USNM 24200, original no. 1554. NPEE.

mutabilis, Mytilus: 1861, PBSNH, vol. 8, p. 38 (Kagos[h]ima Bay [Japan], W. Stimpson), long. 30, alt. 16, lat. 12 mm.; 1862, Otia Conch., p. 177. Type lot, USNM 2065, not found. NPEE. See note by Carpenter, 1864, Rep. British Assn. Adv. Sci. 1853, p. 587.

mutans, Melania **Plate 35, fig. 4**

1843, PBSNH, vol. 1, p. 159 (Cape Palmas, Liberia [ibid., p. 153], Drs. Savage and Perkins), long. 1½, lat. 7/20 in.; 1862, Otia Conch., p. 193: " . . . is *Melania fuscata* Gmelin which varies greatly in its exterior sculpture." Measured holotype MCZ 169255 *ex* NYSM 70, original no. A 3904.

mutata, Helix: 1846, PBSNH, vol. 2, p. 167 (Rio [de] Janeiro [Brazil], USEE), lat. 1/10, alt. 3/20 in.; 1862, Otia Conch., p. 19. Omitted from the report of USEE.

nacca, Vertigo **Plate 42, fig 2**

1862, PBSNH, vol. 8, p. 280 (Hawaii, W. Newcomb), axis 1/10, diam. 1/12 in.; 1862, Otia Conch., p. 237. Lectotype, here selected, MCZ 169259 *ex* NYSM 213; original no. G 2691; 4 paratypes MCZ 169260 and paratype USNM 611212 from same NYSM lot.

nana, Diloma: 1861, PBSNH, vol. 8, p. 18 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), diam. 5 mm.; 1862, Otia Conch., p. 156. NPEE.

nana, Monilea **Plate 14, fig. 3**

1861, PBSNH, vol. 8, p. 16 (China Coral Seas, W. Stimpson), diam. 2+ mm.; 1862, Otia Conch., p. 155. Lectotype, here selected, USNM 384; 2 paratypes USNM 24227; paratypes in NYSM, original no. G 2448, listed as lost in 1875, Ann. Rep. NYSM, p. 13, NPEE.

nana, Perna: 1850, PBSNH, vol. 3, p. 312 (Feejee [Fiji] Islands, under stones, Drayton), long. 3/5, alt. ¾, lat. ¼ in.; 1852, USEE, vol. 12, p. 445, pl. 40; fig. 556,a–b; 1862, Otia Conch., p. 92. Figured holotype USNM 5981; paratype MCZ 216769 *ex* Smithsonian Inst. (printed label).

nasuta, Mactra: 1851, PBSNH, vol. 4, p. 88 (Mazatlan [Mexico], T. P. Green; San Pedro [California], W. Rich), long. 3¼, lat. 1, alt. 2¼ in; 1854, BJNH, vol. 6, p. 393: " . . . is *Mactra falcata* Gould"; 1862, Otia Conch., p. 211. 2 possible syntypes USNM 2296 *ex* W. Rich.

nebulosa* 'Gould' A. Adams, *Bulla: 1850, *in* Sowerby, Thesaurus Conch., vol. 2, p. 578, pl. 123, figs. 79, 80 (Guaymas, Gulf of California [Mexico], in sand, 12 inches, Mus. Cuming). Holotype should be in H. Cuming coll. in British Mus. (Nat. Hist.). Specimen presumed to be from Gould's original lot, MCZ 169263, *ex* NYSM 169, original no. A 6512 labeled "San Diego, California." Not Schroeter 1804, changed by Pilsbry, 1895, Manual of Conchology, ser. 1, vol 15, p. 340, to *Bulla gouldiana.*

nebulosa, Columbella [(***Anachis***)] **Plate 8, fig. 1**
1860, PBSNH, vol. 7, p. 333 (China Seas, W. Stimpson), axis 6, lat. 2.5 mm.; 1862, Otia Conch., p. 130. Probable holotype, here selected, lectotype USNM 13283, original no. 412, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 573, pl. 51, figs. 45, 46. NPEE.

neritoidea, Lacuna **Plate 6, fig. 2**
1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 197 (found on the sands, Chelsea Beach [Massachusetts]), length ⅛, greatest breadth ¼ in., divergence 95°; 1841, Invert. Massachusetts, p. 263, fig. 170. Mentioned as being in Massachusetts State Cabinet no. 35 and BSNH 2413, but both specimens lost; 1862, Otia Conch., p. 180; 1870, Invert. Massachusetts, p. 303, fig. 574. Lectotype, here selected, MCZ 169261 *ex* NYSM, original no. A 6127; paratype MCZ 169262 and paratype USNM 611273 from same NYSM lot.

nexa, Modiola [***Modiolaria***]**:** 1841, Invert. Massachusetts, p. 128, fig. 86 (Provincetown Harbor [Massachusetts], Col. Totten), length 7/10, height 5/10, breadth 5/10 in. Mentioned as being in Massachusetts State Cabinet no. 154 but specimen lost; 1862, Otia Conch., p. 182: " . . . is undoubtedly *M. modiolaria nigra* Gray"; 1870, Invert. Massachusetts, p. 191, fig. 487, listed as a synonym of *M. nigra* Gray.

nexilis, Semele: 1862, PBSNH, vol. 8, p. 281 (coast of Georgia), long. 26, alt. 15, lat. 7 mm.; 1862, Otia Conch., p. 238.

nigra, Avicula [***Meleagrina***]**:** 1850, PBSNH, vol. 3, p. 309 (dredged at Singapore), alt. 2, long. 1¾, lat. ½ in.; 1852, USEE, vol. 12, p. 438, pl. 40, fig. 554,a-b; 1862, Otia Conch., p. 90. Figured holotype USNM 5939.

nipponensis* Kuroda, *Chlamys farreri: New name for *Pectin laetus* Gould 1861, not Gould 1850. See under *laetus* Gould, *Pectin.*

nitens* Carpenter, *Modiola: 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 202. See Palmer, 1958, Geol. Soc. Amer. Mem., no. 76, p. 73.

nitida, Theora **Plate 24, fig. 3**

1861, PBSNH, vol. 8, p. 24 (Hong Kong Harbor [China]), long. 14, alt. 8, lat. 5 mm.; 1862, Otia Conch., p. 162. Measured holotype USNM 535; paratype USNM 611839 from same lot; paratype MCZ 169267, *ex* NYSM 342, original no. G 2499. NPEE.

nitida, Vitrina: 1846, PBSNH, vol. 2, p. 180 (Madeira Island: Roche de Empena, toward Pico de Ruivo, 4240 feet elevation, J. P. Couthouy), diam. 1⁹⁄₁₀, alt. ⁵⁄₁₀ in.; 1852, USEE, vol. 12, p. 9, pl. 1, fig. 8,a–b; 1862, Otia Conch., p. 26. Figured holotype USNM 5408.

nitidula, Rissoina **Plate 15, fig. 2**

1861, PBSNH, vol. 7, p. 400 (China Seas, W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 145. Measured holotype USNM 24071, original no. 568, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 568, pl. 50, figs. 26, 27.

nitidum, Osteodesma [***Lyonsia***]: 1853, BJNH, vol. 6, p. 390, pl. 15, fig. 6 (Santa Barbara [California], T. P. Green), diam. ⅞, lat. et alt. ⅝ in.; 1862, Otia Conch., p. 187.

nitidus, Solecurtus: 1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 196 (stomachs of codfish caught off the [Grand] Banks [off Nova Scotia] and occasionally on our [Massachusetts] shores), long. 3, alt. 2.7, lat. 1.9 in.; 1841, Invert. Massachusetts, p. 33, figs. 25, 26. Mentioned as being in Massachusetts State Cabinet no. 240 and BSNH 1717 but both specimens lost; genus changed to *Machaera*, 1862, Otia Conch., p. 179; 1870, Invert. Massachusetts, p. 46, listed as a synonym of *Machaera squama* Blainville.

nobilis, Cyclas: 1855, PBSNH, vol. 5, p. 229 (near San Pedro, California, T. H. Webb), long. ½, lat. ¼, alt. ⅜ in.; 1862, Otia Conch., p. 218. Lectotype, selected by Johnson 1959, Bull. MCZ, vol. 120, p. 462, MCZ 19475 *ex* T. Prime coll. from Gould, figured by Prime, 1865, Smithsonian Misc. Coll. vol. 7, art. 5, p. 41, fig. 35.

nocturnus, Turbo **Plate 18, fig. 2**

1861, PBSNH, vol. 8, p. 22 (Simoda [Shimoda, Japan], W. Stimpson), axis 7 mm.; 1862, Otia Conch., p. 160. Measured holotype USNM 2048; 4 smaller paratypes USNM 31122; 3 paratypes MCZ 169264 *ex* NYSM 119, original no. G 2439; 2 paratypes MCZ 87863 *ex* BSNH 5576; paratype MCZ 216599 *ex* Smithsonian Inst. (printed label). NPEE.

normalis, Siphonaria: 1846, PBSNH, vol. 2, p. 154 (Sandwich [Hawaiian] Islands), long. ⅘, lat. ⅗, alt. ⅗ in.; 1852, USEE, vol. 12, p. 359, pl. 30, fig. 468,a–b; 1862, Otia Conch., pp. 12, 242. Syntype USNM 15346, teste P. P. Carpenter on label.

nubilosa, Achatinella: 1852, USEE, vol. 12, p. 86, pl. 7, fig. 95 (Maui, Sandwich [Hawaiian] Islands). Gould's name affixed by error; is *Achatinella nubilosa* Mighels. See Hyatt and Pilsbry, 1911, Manual of Conchology, ser. 2, vol. 21, p. 159.

nucleola, Achatinella **Plate 41, fig. 7**
1845, PBSNH, vol. 2, p. 28 (Sandwich [Hawaiian] Islands), long. 9/20, lat. ½ in.; 1862, Otia Conch., p. 196: ". . . is *Achatinella brevis* Pfeiffer." Both species were described the same year. Lectotype, here selected, MCZ 169265 *ex* NYSM 194, original no. A 1172, from W. Newcomb labeled "Kauai"; 30 paratypes MCZ 169226 and 3 paratypes USNM 611221 from same NYSM lot. See Hyatt and Pilsbry, 1911, Manual of Conchology, ser. 2, vol. 21, p. 154.

nummaria, Crepidula: 1846, PBSNH, vol. 2, p. 160 (Classet [Indian tribe near Cape Flattery], Straits of [Juan] de Fuca, Oregon [Washington]), diam. ¾ in.; 1852, USEE, vol. 12, p. 377, pl. 32, fig. 480,a–b; 1862, Otia Conch., p. 75. Figured holotype USNM 5870.

obeliscus, Turbonilla: 1861, PBSNH, vol. 7, p. 406 (Simon's Bay [Cape of Good Hope], at low water, under stones, W. Stimpson), axis 10.5, diam. 3 mm.; 1862, Otia Conch., p. 150. Holotype USNM 165, figured by Bartsch, 1915, USNM Bull. 91, p. 76, pl. 17, fig. 7. Not *Chemnitzia obeliscus* C. B. Adams, 1850, changed to *T. secura* by Bartsch, op. cit. NPEE.

obesus, Donax: 1851, PBSNH, vol. 4, p. 90 (San Diego [California], T. P. Green), long. 9/10, alt. 9/10, lat. 9/10 in.; 1853, BJNH, vol. 6, p. 394, pl. 15, fig. 9; 1862, Otia Conch., p. 212.

obligatum, Cyclostoma [***Ostodes***]: 1847, PBSNH, vol. 2, p. 205 (Matea [Makatea Island, Tuamotu Islands], J. P. Couthouy), lat. 5/16, alt. ⅜ in.; 1852, USEE, vol. 12, p. 104, pl. 8, fig. 119,a; 1862, Otia Conch., pp. 38, 244. Measured holotype USNM 5520, figure enlarged; 4 paratypes MCZ 169268 *ex* NYSM 320, original no. G 2621.

obliqua, Mysia: 1861, PBSNH, vol. 8, p. 33 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 8, alt. 7, lat. 3.5 mm.; 1862, Otia Conch., p. 171. NPEE.

obolus, Helix [***Pitys***]: 1846, PBSNH, vol. 2, p. 175 (Tahiti [Society Islands], J. P. Couthouy), lat. ⅛, alt. 1/30 in.; 1852, USEE, vol. 12, p. 53, pl. 4, fig. 50,a–c; 1862, Otia Conch., pp. 22, 243. Probable syntype Redpath Mus. 12953.

obovata, Dombeya [***Chilina***]: 1847, PBSNH, vol. 2, p. 211 (Concon [Aconcagua] River, Quillota, Chile, J. P. Couthouy), long. ⅞, lat. ½ in.; 1852, USEE, vol. 12, p. 124, pl. 9, fig. 143,a; 1862, Otia Conch., pp. 41, 244. Figured holotype USNM 5543; 4 paratypes MCZ 143425 *ex* Smithsonian Inst. (printed label).

***obstricta, Bulla* [*Cylichna*]:** 1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 196 (Chelsea Beach, A. A. Gould; Provincetown, Col. Totten; New Bedford, C. B. Adams [all in Massachusetts]), long. 0.2, lat. 0.1 in.; 1841, Invert. Massachusetts, p. 167, fig. 96. Mentioned as being in Massachusetts State Cabinet no. 113 and BSNH 2389 but both specimens lost; 1862, Otia Conch., p. 180; 1870, Invert. Massachusetts, p. 219, as a synonym of *Utriculus canaliculatus* Say. 10 syntypes MCZ 216773 *ex* C. B. Adams coll. from New Bedford, Massachusetts.

obtusa, Odostomia **Plate 19, fig. 4**
1861, PBSNH, vol. 7, p. 405 (Port Lloyd, Bonin Islands, W. Stimpson), axis 2+, diam. 1 mm.; 1862, Otia Conch., p. 149. Measured holotype USNM 950. NPEE.

obtusa, Theora: 1861, PBSNH, vol. 8, p. 24 (hab.?), long. 10, alt. 6, lat. 3 mm.; 1862, Otia Conch., p. 162: "Only one valve was obtained." Half holotype USNM 24060, original no. 1420, not found. NPEE.

obtusa, Yoldia: 1861, PBSNH, vol. 8, p. 36 (Hong Kong Harbor [China], in mud, 6–10 fathoms, W. Stimpson), long. 16, alt. 9, lat. 6 mm.; 1862, Otia Conch., p. 175. NPEE.

occidens, Fisurella: 1846, PBSNH, vol. 2, p. 156 (Callao, Peru), long. 1$\frac{3}{10}$, lat. 1$\frac{1}{10}$, alt. 1$\frac{1}{20}$ in.; 1852, USEE, vol. 12, p. 364, pl. 31, fig. 473,a–b; 1862, Otia Conch., p. 13. Figured holotype USNM 5863; 2 paratypes MCZ 155766 *ex* Smithsonian Inst. (printed label).

ocellatus, Elenchus **Plate 14, fig. 9**
1861, PBSNH, vol. 8, p. 18 (Sydney, New South Wales [Australia], W. Stimpson), axis 12, diam. 7 mm.; 1862, Otia Conch., p. 156. Measured holotype USNM 24206, original no. 300.

olivaceus, Limax: 1852, USEE, vol. 12, p. 4, pl. 1, fig. 3,a–b (Par[r]amatta, New South Wales [Australia], J. P. Couthouy), long. 2$\frac{1}{2}$ in.; 1862, Otia Conch., p. 223.

ollula, Limnaea **Plate 43, fig. 6**
1859, PBSNH, vol. 7, p. 40 (streams and marshes on Hong Kong Island [China], Wright), axis $\frac{1}{4}$, diam. $\frac{1}{5}$ in.; 1862, Otia Conch., p. 105. Lectotype, here selected, USNM 831, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 580, pl. 51, figs. 42, 50. NPEE.

***onychina, Lottia* [*Tectura*]:** 1852, USEE, vol. 12, p. 355, pl. 30, fig. 461,a–b (marked Rio [de] Janeiro [Brazil], "but they so much resemble shells from the Pacific coast, I think there must be some mistake"), length $\frac{4}{5}$, breadth $\frac{1}{2}$, height $\frac{1}{4}$ in.; 1862, Otia Conch., pp. 226, 242. Figured holotype USNM 5825; lot also includes

a smaller paratype; 2 paratypes MCZ 216823 *ex* Smithsonian Inst. (printed label).

opercularis, Planorbis: 1847, PBSNH, vol. 2, p. 212 (Rio Sacramento, upper California), long. ¼, lat. 1/16 in.; 1852, USEE, vol. 12, p. 113, pl. 8, fig. 132,a–b; 1862, Otia Conch., p. 42. Figured holotype USNM 5532, last whorl damaged.

operculina, Helix: 1859, PBSNH, vol. 6, p. 423 (Peel Island [Chichijima], Bonin Islands, Wright), axis 1/10, diam. 3/16 in.; 1862, Otia Conch., p. 102. Type lot USNM 954 not found.

operosa, Cylichna **Plate 7, fig. 4**

1859, PBSNH, vol. 7, p. 140 (Hong Kong Harbor [China], W. Stimpson), axis 4, diam. 1 mm.; 1862, Otia Conch., p. 112. Measured holotype USNM 537, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 579, pl. 51, fig. 38. NPEE.

opportuna, Auricula [***(Leuconia)***] **Plate 35, fig. 3**

1859, PBSNH, vol. 7, p. 40 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 8, diam. 4 mm.; 1862, Otia Conch., p. 105. Lectotype, here selected, MCZ 169269 *ex* NYSM 298, original no. A 6214. NPEE.

optata, Nassa **Plate 16, fig. 4**

1860, PBSNH, vol. 7, p. 331 (Sydney Harbor [New South Wales, Australia], W. Stimpson), axis 10, diam. 6 mm.; 1862, Otia Conch., p. 128. Probable measured holotype, here selected, lectotype MCZ 169270 *ex* NYSM 15, original no. A 4695. NPEE.

orbella, Lucina [***Diplodonta***]: 1851, PBSNH, vol. 4, p. 90 (San Diego [California], T. P. Green), long. 4/5, alt. 5/8, lat. ½–5/8 in.; 1853, BJNH, vol. 6, p. 395, pl. 15, fig. 3 (also Santa Barbara [California], E. Jewett); 1862, Otia Conch., p. 212. Figured holotype MCZ 169271 *ex* NYSM 363, original no. A 958 labeled "San Diego"; ideotype MCZ 169272 *ex* NYSM 364, original no. A 991, labeled "Santa Barbara."

orientalis **'Gould' Carpenter, *Mercenaria:*** 1864, Rep. British Assn. Adv. Sci. 1863, p. 583 [nomen nudum].

ornata, Semele: 1862, PBSNH, vol. 8, p. 281 (Georgia); no measurements given; 1862, Otia Conch., p. 239.

ornata, Turbonilla **Plate 15, fig. 12**

1861, PBSNH, vol. 7, p. 406 (Hong Kong [China], W. Stimpson], axis 6.7, diam. 1.5 mm.; 1862, Otia Conch., p. 150. Measured holotype USNM 556. NPEE.

ornatus, Obeliscus **Plate 9, fig. 5**

1861, PBSNH, vol. 7, p. 403 (China Seas, W. Stimpson), axis 16, diam. 6 mm.; 1862, Otia Conch., p. 147. Measured holotype USNM 523. NPEE.

ornatus, Octopus: 1852, USEE, vol. 12, p. 476, pl. 48, fig. 590,a (Oahu and Maui, Sandwich [Hawaiian] Islands), length along back 2½, breadth 1¾, of neck 1 in., of umbrella above mouth 2, below 1, laterally 3 in., length of arms: upper pair 20, upper lateral 24, lower lateral 20, lower 21 in.; 1862, Otia Conch., p. 232.

orpheus, Fusus [***Trophon***]**:** 1849, PBSNH, vol. 3, p. 142 (Puget Sound [Washington], Pickering), long. ½, lat. ⅛ in.; 1852, USEE, vol. 12, p. 234, pl. 16, fig. 285,a; 1862, Otia Conch., pp. 65, 245. Figured holotype USNM 5683.

ossea, Emarginula [***Tugali***]**:** 1846, PBSNH, vol. 2, p. 155 (Feejee [Fiji] Islands), long. 5/10, lat. 2/10, alt. 3/10 in.; 1852, USEE, vol. 12, p. 373, pl. 32, fig. 492,a–c; 1862, Otia Conch., p. 12. Syntype USNM 19112 about half the size of the measured type.

***Ostodes*, new genus:** 1862, PBSNH, vol. 8, p. 283. Designated type species: *Cyclostoma strigatum* Gould; 1862, Otia Conch., p. 240.

ostrina, Purpura **Plate 9, fig. 12**

1852, USEE, vol. 12, p. 244, pl. 18, fig. 310,a (Killimook [Tillamook], Oregon), long. 1, diam. ⅝ in.; 1862, Otia Conch., p. 225. Lectotype, here selected, MCZ 169275 *ex* NYSM 22, original no. G 2557. No type was found in USNM. Specimens were sent out by Smithsonian Inst. with locality "Puget sound" but they are not types.

ovalis, Mactra [***Spisula***]**:** 1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 196 ([Grand] Bank[s] fisheries [off Nova Scotia], in the stomachs of fish; young from fish caught in Boston Harbor [Massachusetts]), long. 4, alt. 2.7, lat. 1.9 in.; 1841, Invert. Massachusetts, p. 53, fig. 32. Mentioned as being in Massachusetts State Cabinet no. 229 and BSNH 2324 but both specimens lost; 1862, Otia Conch., p. 179; 1870, Invert. Massachusetts, p. 75, fig. 388. Not *Mactra ovalis* Sowerby 1817, changed to *Mactra polynyma* Stimpson 1860, Smithsonian Misc. Coll., vol. 2, art. 6, no. 3, p. 3.

ovalis*, Gould not Say, *Succinea: 1841, Invert. Massachusetts, p. 194, fig. 125; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 78, pl. 67a, fig 3; 1870, Invert. Massachusetts, p. 445, fig. 707. See Pilsbry, 1948, Land Mollusca of North America, vol. 2, pt. 2, p. 782, wherein the name is changed to *Oxyloma decampi gouldii*. Pilsbry states: "Diagnosis, remarks and figures, but not description quoted from Say."

ovata, Erycina (***Poronia***) [***Scintilla***]**:** 1850, PBSNH, vol. 3, p. 218 (Sandwich [Hawaiian] Islands), long. 3/20, alt. ¼, lat. ⅛ in.; 1852, USEE, vol. 12, p. 401, pl. 44, fig. 587,a–c; 1862, Otia Conch., pp. 78, 245. Figured holotype USNM 5969. 1½ supposed paratypes MCZ 169274 *ex* NYSM 368, original no. G 2659 labeled "Kauai, Hawaiian Islands, USEE, from Pease."

ovoidea, Narica **Plate 16, fig. 9**
1853, BJNH, vol. 6, p. 380, pl. 14, fig. 10 (purchased at Mazatlan, Mexico, E. Jewett), long. 7/20, lat. 3/20 in.; 1862, Otia Conch., p. 185. Figured holotype MCZ 169273 *ex* NYSM 110, original no. A 3113.

ovoidea, Pholas: 1851, PBSNH, vol. 4, p. 87 (Monterey [California], W. Rich), long. 3; lat. 1¾, alt. 2 in.; 1853, BJNH, vol. 6, p. 388, pl. 15, fig. 1; 1862, Otia Conch., p. 210.

pagodula, Melania [*Io*] **Plate 44, fig. 2**
1847, PBSNH, vol. 2, p. 219 (Thoungyin River, a branch of the Salw[e]en [River, Burma], Mrs. Vinton), long. 1½, lat. ⅞ in.; 1862, Otia Conch., p. 200. Probable measured holotype, here selected, lectotype MCZ 169276 *ex* NYSM 62, original no. G 2579; paratype USNM 611238 from same NYSM lot.

paleacea, Acmaea [*Nacella*]: 1853, BJNH, vol. 6, p. 376, pl. 14, fig. 5 (on kelp or stems of Zoophytes, Santa Barbara [California], E. Jewett), length ¼, height 1/10, breadth 1/16 in.; 1862, Otia Conch., p. 184: ". . . is *Patelloidea depicta* Hinds." Figured holotype USNM 11850 *ex* E. Jewett; paratype USNM 612327; paratypes, original no. A 2968, listed as lost in 1875, 27th Ann. Rep. NYSM, p. 13.

pallida* 'Agassiz' Gould, *Doris: 1870, Invert. Massachusetts, p. 229, pl. 20, figs. 284, 287, 288, 291 (Beverly, L. Agassiz, February 1848; near Governor's Island, Boston Harbor, W. Stimpson, October 1849 [both in Massachusetts]), length ½, breadth ¼ in.

pallida, Helicina: 1847, PBSNH, vol. 2, p. 202 (Feejee [Fiji] Islands), lat. 3/10, alt. 3/20 in.; 1852, USEE, vol. 12, p. 96, pl. 7, fig. 113,a–c; 1862, Otia Conch., p. 37. Figured holotype USNM 5515; 7 paratypes MCZ *ex* NYSM 290, original no. G 2629; paratype MCZ 216618 *ex* Smithsonian Inst. (printed label).

pallida, Patella: 1859, PBSNH, vol. 7, p. 162 (Hakodadi [Hakodate] Bay [Japan], on stones and gravel, 10 fathoms, W. Stimpson), long. 40, lat. 33, alt. 30 mm.; 1862, Otia Conch., p. 115. NPEE.

pallidus, Donax [*Latona*]: 1850, PBSNH, vol. 3, p. 254 (Singapore), long. ¾, alt. ½, lat. ¼ in.; 1852, USEE, vol. 12, p. 410, pl. 36, fig. 520,a–b; 1862, Otia Conch., pp. 81, 246. 3 syntypes USNM 17942; 4 syntypes MCZ 213128 *ex* Smithsonian Inst. (printed label).

paludicolus, Unio **Plate 31, fig. 3**
1845, PBSNH, vol. 2, p. 53 (Everglades of Florida, J. Bartlett), long. 1⅝, alt. 9/10 in.; 1862, Otia Conch., p. 197. Lectotype, here selected, MCZ 169278 *ex* NYSM 689, original no. A 5198; 18 paratypes MCZ 169279 and paratype USNM 611274 *ex* NYSM 378, 687, original no. A 5189; paratype USNM 85713 *ex* I. Lea coll. from Gould.

palumbina, Columbella **Plate 8, fig. 13**

1845, PBSNH, vol. 2, p. 27 (Sandwich [Hawaiian] Islands), long. ⅝, lat. 3/10 in.; 1862, Otia Conch., p. 195. Lectotype, here selected, MCZ 169280 *ex* NYSM—original no. A 453; 30 paratypes MCZ 169281 and 2 paratypes USNM 611216 from same NYSM lot.

pansa, Purpura: 1853, BJNH, vol. 6, p. 406 (Pacific): "Pacific variety of *Purpura patula.*"

papyraceus, Unio **Plate 31, fig. 2**

1845, PBSNH, vol. 2, p. 53 (Everglades of Florida, J. Bartlett), long. 1⅝, lat. 7/10, alt. 1 in.; 1862, Otia Conch., p. 197. Lectotype, here selected, USNM 86125, *ex* I. Lea coll. from Gould; paratype USNM 611828 from same lot.

parallela, Bulla [***Cylichna***]**:** 1847, PBSNH, vol. 2, p. 251 (hab.?), long. 9/20, lat. ⅕ in.; 1852, USEE, vol. 12, p. 220, pl. 15, fig. 267,a; 1862, Otia Conch., pp. 98, 246. Type lost, according to label of USNM 19091.

parcum, Bittium **Plate 12, fig. 14**

1861, PBSNH, vol. 7, p. 387 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 142. Lectotype, here selected, USNM 2040; paratype USNM 24182; paratype MCZ 216619 *ex* Smithsonian Inst. (printed label).

pardilis* 'Gould,' *Solen: 1875, 27th Ann. Rep. NYSM, p. 53 [nomen nudum].

paritura, Achatina **Plate 42, fig. 4**

1850, PBSNH, vol. 3, p. 196 (buried under leaves or earth, during the dry season, near the sea, Fishtown, Liberia, G. A. Perkins), long. 1, alt. 7/20 in.; 1862, Otia Conch., p. 208. Lectotype, here selected, MCZ 169282 *ex* NYSM 201, original no. A 2146; 9 paratypes MCZ 169283 and 2 paratypes USNM 611250 from same NYSM lot.

parvula, Lucina [(***Codakia***)] **Plate 28, fig. 5**

1861, PBSNH, vol. 8, p. 36 (Port Lloyd, Bonin Island; Loo Choo [Okinawa, Ryukyu Islands]; Hakodadi [Hakodate, Japan], in sand, 6 to 20 fathoms, W. Stimpson and Capt. Rodgers), long. 7, alt. 6, lat. 4 mm.; 1862, Otia Conch., p. 174. Lectotype, here selected, MCZ 169284 *ex* NYSM 366, original no. G 2496, labeled "Port Lloyd, Bonin Islands"; half paratype MCZ 225224 from same NYSM lot; half paratype USNM 952; paratype Redpath Mus. 105 labeled "type Hakodadi, W. Stimpson." Not *Lucina parvula* Muenster 1835, is *Lucina pisidium* Dunker 1860. See Palmer, 1950, Journ. de Conch., vol. 90, p. 193, p. 1, figs. 4, 5. NPEE.

parvula, Nucula: 1861, PBSNH, vol. 8, p. 36 (Hong Kong Harbor [China], in 8 fathoms, muddy bottom, W. Stimpson), long. 2,

lat. 1.5, alt. 1.5 mm.; 1862, Otia Conch., p. 175. Type USNM 24261, original no. 573, reduced to fragments.

parvulum, Sistrum: 1860, PBSNH, vol. 7, p. 328 (Simon's Bay [Cape of Good Hope], W. Stimpson); long. 12, diam. 7 mm.; 1862, Otia Conch., p. 125. NPEE.

patella, Cyclas: 1859, PBSNH, vol. 3, p. 292 (Oregon), long. ½, alt. ⅜, lat. ¼ in.; 1852, USEE, vol. 12, p. 426, pl. 36, fig. 527,a–b (Oregon [Washington] at Wallawalla and Vancouver); 1862, Otia Conch., p. 86. Syntypes MCZ 19476 *ex* T. Prime coll. from Gould. See Herrington, 1958, Nautilus, vol. 72, p. 11.

patens, Rissoa (Setia): 1862, PBSNH, vol. 8, p. 280 (Fort Johnson [eastern point of James Island], Charleston Harbor, South Carolina), axis 3, diam. 2 mm.; 1862, Otia Conch., p. 238.

patula, Littorina: 1849, PBSNH, vol. 3, p. 83 (San Francisco), long. ¾, lat. ½ in.; 1852, USEE, vol. 12, p. 197, pl. 14, fig. 337,a (rocks at the mouth of the harbor, San Francisco, California, Pickering); 1862, Otia Conch., pp. 52, 245: " . . . is *Littorina planaxis* Philippi." Figured holotype USNM 5336.

***patula, Pholas* [Zirphaea]** **Plate 25, fig. 2**

1850, PBSNH, vol. 3, p. 214 (Philippine Islands), long. 3, lat. 1⅘, alt. 1⅗ in.; 1852, USEE, vol. 12, p. 384 [engraving omitted] (probably from the Eastern Seas); 1862, Otia Conch., pp. 73, 245. Lectotype, here selected, MCZ 187240 *ex* Amer. Mus. Nat. Hist., New York, from J. C. Jay coll. Listed in 1850, Catalogue of the J. C. Jay collection, p. 10, labeled "Albay, Luzon, Philippines."

paucistriata* 'Gould,' *Helix: 1875, Ann. Rep. NYSM, p. 52 [nomen nudum].

paumotensis, Patella: 1846, PBSNH, vol. 2, p. 150 (Feejee [Fiji] Islands), long. 1⅗, lat. 1½, alt. ½ in.; (Wilson's Island [Manihi, Tuamotu Islands]); long. 1⅗, lat. 1¼, alt. ⅜ in.; (Rose Island [70 miles E. of Manua Island, Samoan Islands]); long. 1⅓; lat. 1; alt. ⅔ in.; 1852, USEE, vol. 12, p. 339, pl. 28, fig. 440,a–e; 1862, Otia Conch., pp. 8, 242: " . . . is probably *Patella pentagona* Born." 2 syntypes USNM 5830 labeled "Rose Island"; syntype MCZ 216775 *ex* Smithsonian Inst. (printed label), no specific locality.

pauper, Helix **Plate 38, fig. 2**

1859, PBSNH, vol. 6, p. 423 (on dead wood in thickets, Petropaulski [Petropavlovsk-Kamchatski]; Kamtschatka [Kamchatka, both in Siberia]; also Hakodadi [Hakodate, Japan], W. Stimpson), diam. 3/10, axis ⅛ in.; 1862, Otia Conch., p. 102. Lectotype, here selected, MCZ 169285 *ex* NYSM 234, original no. G 2478, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 582,

pl. 51, figs. 56, 57, from Kamtschatka [Kamchatka], Siberia; paratype MCZ 169286 and paratype USNM 611211 *ex* NYSM 234, 263, original no. G 2478. NPEE.

paupera, Nassa: 1850, PBSNH, vol. 3, p. 155 (Pacific Ocean), long. ⅜, lat. ⅛ in.; 1852, USEE, vol. 12, p. 262, pl. 19, fig. 330,a–b; 1862, Otia Conch., p. 70. Figured holotype USNM 5726; paratype MCZ 216602 *ex* Smithsonian Inst.

pauxillus, Helix: New name for *Helix pusillus* Gould, not *pusilla* Vallot 1805, Lowe 1831, Scacchi 1832, Roemer 1836, Pfeiffer 1839. See under *pusillus, Helix.*

pectinula, Modiola [***Modiolaria***] **Plate 26, fig. 1**
1841, Invert. Massachusetts, p. 127, fig. 85 (St. Georges Bank [off southern Massachusetts]), length 7/10, height ½, breadth 7/20 in. Mentioned as being in Massachusetts State Cabinet no. 159, but specimen lost, and BSNH 2342; 1862, Otia Conch., p. 182; 1870, Invert. Massachusetts, p. 195, fig. 493 [genus changed to *Crenella*]. Lectotype, here selected, MCZ 216574 *ex* BSNH 2342. Ideotype USNM 64097 with label "Rec'd. by me from Dr. Gould in his lifetime and may be regarded as typical" (W. H. Dall).

pedestris, Helix: 1846, PBSNH, vol. 2, p. 166 (New South Wales), lat. ⅞, alt. ½ in.; 1852, USEE, vol. 12, p. 65: " . . . is only a small specimen of *H. townsendiana* Lea"; 1862, Otia Conch., pp. 18, 243.

pediculina, Nassa: 1860, PBSNH, vol. 7, p. 332 (Hong Kong Harbor [China], W. Stimpson), axis 6, diam. 4 mm.; 1862, Otia Conch., p. 128. Type lot, USNM 529, not found. NPEE.

***Pelex*, new genus:** 1852, USEE, vol. 12, p. 153. Type species: *Pelex lateralis* Gould, by monotypy; 1856, ibid., Addenda and Corrigenda, p. 502: "*Pelex* is genus *Latia* Gray 1849"; 1862, Otia Conch., p. 224.

pellucida, Helix (***Caracolla***) **Plate 37, fig. 7**
1843, PBSNH, vol. 1, p. 157 (Cape Palmas, Liberia [ibid., p. 153], Africa, Drs. Savage and Perkins), lat. 17/20, alt. ½ in.; 1862, Otia Conch., p. 192. Lectotype, here selected, MCZ 87936 *ex* BSNH from Dr. Perkins; 3 paratypes 225225 from same BSNH lot.

penicillata, Helix **Plate 39, fig. 4**
1842, BJNH, vol. 4, no. 1, back cover (Cuba [J. Bartlett]); 1843, PBSNH, vol. 1, p. 138: " . . . is said to be the young of *Helix gilvus* 'Ferussac'"; 1862, Otia Conch., p. 183: " . . . is a delicately streaked variety of *Helix cubensis* Pfeiffer." Lectotype, here selected, MCZ 169289 *ex* NYSM 235, 250 original no. A 6225; 38 paratypes MCZ 225227, and 3 paratypes USNM 611252 *ex* same NYSM lot.

penicillata, Neritella [(***Clithon***)] **Plate 16, fig. 11**
1859, PBSNH, vol. 7, p. 43 (New Ireland [Bismarck Archipelago], Lt. Van Wycke), axis 6/10; diam ½ in.; 1862, Otia Conch., p. 108. Measured holotype USNM 664. NPEE.

peponum, Pupa [***Tornatellina***] [***Leptinaria***]: 1847, PBSNH, vol. 2, p. 197 (Sandwich [Hawaiian] Islands, very abundant on pumpkin vines), long. 3/20, lat. 3/40 in.; 1852, USEE, vol. 12, p. 93, pl. 7, fig. 104,a–e (Hilo [Hawaii], Wilkes; Oahu, Brackenridge); 1862, Otia Conch., pp. 34, 244. Holotype USNM 5506, figured by Pilsbry and Cooke, 1915, Manual of Conchology, ser. 2, vol. 23, p. 157, pl. 35, figs. 1, 2; paratype MCZ 216798 *ex* J. P. Couthouy from Peabody Museum, Salem, Mass.

pequottinus **'Linsley' Gould, *Unio:*** 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 233: "Undoubtedly a valve of *U. latus* Rafinesque. Said to have been found with Indian bones" (Gould).

peregrina, Balea: 1847, PBSNH, vol. 2, p. 198 (New Zealand), long. 3/8, lat. 1/10 in.; 1852, USEE, vol. 12, p. 91, pl. 7, fig. 105a–b; 1862, Otia Conch., p. 34. Holotype USNM 5507, specimen lost.

peregrina, Clathurella: 1860, PBSNH, vol. 7, p. 337 (Sydney Harbor [New South Wales, Australia]), axis 12, diam. 5 mm.; 1862, Otia Conch., p. 134. NPEE.

Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 311, mentions he found no type of this species in any of the collections he visited.

pergaminea, Crenatula: 1850, PBSNH, vol. 3, p. 310 (Feejee [Fiji] Islands), long. 1¼, alt. 5/8, lat. 3/8 in.; 1852, USEE, vol. 12, p. 447, pl. 44, fig. 584,a–b; 1862, Otia Conch., p. 91. Figured holotype USNM 5966.

pernobilis, Cyclostoma [***Cyclophorus***]: 1843, PBSNH, vol. 1, p. 140 (Tavoy, British Burmah [Burma], F. Mason), alt. 1, lat. 2 in.; 1844, BJNH, vol. 4, p. 458, pl. 24, fig. 11; 1862, Otia Conch., p. 190. Figured holotype MCZ 169440 *ex* NYSM 327; 3 paratypes MCZ 169441 and paratype USNM 611228 from same NYSM lot.

pernoides **Carpenter, *Byssoarea:*** 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 202. See Palmer, 1958, Geol. Soc. Amer. Mem., no. 76, p. 62.

persica, Margarita: 1852, USEE, vol. 12, p. 193, pl. 14, fig. 230,a (from among Cape Horn shells), diam. ½, axis 3/10 in.; 1862, Otia Conch., p. 225. 4 syntypes MCZ 216617 and MCZ 216804 *ex* Smithsonian Inst. (printed label).

pertenuis, Helix: 1846, PBSNH, vol. 2, p. 172 (Aurora Island or Metia [Makatea, Tuamotu Islands], J. P. Couthouy), lat. ⅛, alt. 1/10 in.; 1852, USEE, vol. 12, p. 45, pl. 5, fig. 60,a–c; 1862, Otia Conch., p. 20. Figured holotype USNM 5462.

perula, Tellina [Arcopagia]: 1850, PBSNH, vol. 3, p. 254 (Feejee [Fiji] Islands, Mr. Hawkins), long. ½, alt. ⅜, lat. 3/20 in.; 1852, USEE, vol. 12, p. 409, pl. 35, fig. 516,a–c; 1862, Otia Conch., pp. 80, 246. Half figured holotype USNM 5903; paratype USNM 612316; paratype MCZ 216578 *ex* Smithsonian Inst. (printed label).

petaloides, Chiton [Lucia]: 1846, PBSNH, vol. 2, p. 144 (Sandwich [Hawaiian] Islands), long. ½, lat. ⅜ in.; 1852, USEE, vol. 12, p. 328, pl. 28, fig. 435,a–b (Kauai and Oahu, Sandwich [Hawaiian] Islands); 1862, Otia Conch., pp. 6, 242. Probable holotype USNM 12922 consists of 5 plates only.

petechialis, Doris: 1852, USEE, vol. 12, p. 296, pl. 22, fig. 391,a (Honolulu, Oahu [Hawaiian Islands], long. 2½, lat. 1¼ in.; 1862, Otia Conch., p. 227.

peteningensis, Cingula: 1852, USEE, vol. 12, p. 130, pl. 9, fig. 152,a–b (found adhering to grass on the margin of Lagao de Peteninga, about 6 miles from Rio de Janeiro [Brazil] near the northern entrance of the harbor; the water is here quite saline, the sea breaking into the lake in storms; J. P. Couthouy), length ⅓, breadth 1/10 in.; 1862, Otia Conch., p. 224. 6 syntypes USNM 20648; 12 syntypes MCZ 216776 *ex* Smithsonian Inst. (printed label).

petitii, Helix (Streptaxis) **Plate 38, fig. 12**

1844, BJNH, vol. 4, p. 458, pl. 24, fig. 7 (Tavoy, British Burmah [Burma], F. Mason), length ⅜, breadth less than 3/10 in.; 1862, Otia Conch., p. 183. Figured holotype MCZ 169290 *ex* NYSM 230, original no. A 1864 and 2 paratypes USNM 611232 from same NYSM lot; paratype MCZ 136608 *ex* BSNH 15340.

petrinus, Unio **Plate 31, fig. 4**

1855, PBSNH, vol. 5, p. 228 (Llanos River, Texas, T. H. Webb), long. 1½, alt. 1¼, lat. ¾ in.; 1862, Otia Conch., p. 218. Measured holotype MCZ 169291 *ex* NYSM 708, original no. A 6405.

petrosa, Paludina **Plate 43, fig. 3**

1843, PBSNH, vol. 1, p. 144 (Tavoy, British Burmah [Burma], F. Mason); no measurements; 1862, Otia Conch., p. 191. Lectotype, here selected, MCZ 169292 *ex* NYSM 99, original no. A 5131; paratype MCZ 169293 and paratype USNM 611227 from same NYSM lot.

physoides, Odostomia **Plate 9, fig. 7**
1861, PBSNH, vol. 7, p. 405 (China Seas, W. Stimpson), axis 3+, diam. 2 mm.; 1862, Otia Conch., p. 149. Measured holotype USNM 564. NPEE.

pica, Avicula: 1852, USEE, vol. 12, p. 433. Not *Avicula pica* Philippi, 1849. In the original description, Gould must have been aware that this name was preoccupied and changed it to *maculata* but was unable or forgot to change it in the USEE report.

pica, Nerita **Plate 16, fig. 10**
1859, PBSNH, vol. 7, p. 43 (Simoda [Shimoda, Japan], very common on rocks), axis 1/10, diam. ½ in.; 1862, Otia Conch., p. 108. Lectotype, here selected, USNM 1616; 2 smaller paratypes USNM 24236; 2 paratypes MCZ 169294 *ex* NYSM 112, original no. G 2446; 2 paratypes MCZ 87865 *ex* BSNH 3620. NPEE.

picea, Astarte castanea **Plate 30, fig. 4**
1841, Invert. Massachusetts, p. 77 (Chelsea Beach [Massachusetts]), no measurements. Lectotype, here selected, MCZ 216818 *ex* BSNH 1807, new no. 9093 from A. A. Gould; 1½ paratypes MCZ 225228 from same BSNH lot.

picoides, Trochus [***Livona***]**:** 1853, BJNH, vol. 6, p. 381 (Santa Barbara [California], E. Jewett), no measurements: "One specimen and a loan of 3 of 5 brought home"; 1862, Otia Conch., p. 185.

pilata, Aeolis: 1870, Invert. Massachusetts, p. 243, pl. 19, figs. 270, 277, 279, 281 (Charles River [Boston, Massachusetts]), length 1½, breadth ¼ in.

pileata, Emarginula **Plate 21, fig. 3**
1859, PBSNH, vol. 7, p. 162 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 5, lat. et alt. 4 mm.; 1862, Otia Conch., p. 116. Lectotype, here selected, USNM 24210. NPEE.

pilula, Alcaeus: 1859, PBSNH, vol. 6, p. 424 (Hong Kong, China, W. Stimpson), axis ¼, diam. ⅛ in.; 1862, Otia Conch., p. 103. Type lot USNM 1997, not found. NPEE.

pintadina, Lottia [***Tectura***]**:** 1846, PBSNH, vol. 2, p. 151 (Straits of [Juan] de Fuca, Puget Sound [Washington], and mouth of Columbia River), long. 2, lat. 1⅗, alt. ⅜ in.; 1852, USEE, vol. 12, p. 351, pl. 29, fig. 455,a–c; divided into varieties a, b, y; 1862, Otia Conch., pp. 9, 242: "Probably *Lottia patina* Eschscholtz." Lectotype, here selected, USNM 5845, pl. 29, fig. 455. This is the figure copied by Pilsbry, 1891, Manual of Conchology, ser. 1, vol. 13, p. 12, pl. 9, fig. 6. Figured paratype USNM 635610, pl. 29, fig. 455a; 2 paratypes MCZ 169295 *ex* NYSM 153, original no. A 6514; 10 paratypes MCZ 216778 *ex* Smithsonian Inst. (printed label).

pintado, Margarita: 1861, PBSNH, vol. 8, p. 16 (Simon's Bay, Cape of Good Hope, 12 fathoms, sandy, W. Stimpson), axis 4, diam. 5 mm.; 1862, Otia Conch., p. 154. Holotype USNM 213, figured by Bartsch, 1915, USNM Bull. 91, p. 160, pl. 28, figs. 10–12. NPEE.

piperata, Patella: 1846, PBSNH, vol. 2, p. 150 (Cape de Verde Islands and Madeira), long. 1⅛, lat. 9/10, alt. ½ in.; 1852, USEE, vol. 12, p. 338, pl. 28, fig. 439,a–b; 1862, Otia Conch., pp. 8, 242: ". . . seems to be *Patella rustica* Linn." Figured holotype USNM 5829.

pisolina, Nanina: 1859, PBSNH, vol. 6, p. 423 (Cape of Good Hope?), diam. ¼, axis ⅛ in.; 1862, Otia Conch., p. 102. NPEE.

placida, Cleodora [(***Creseis***)]: 1852, USEE, vol. 12, p. 490, pl. 51, fig. 606,a (obtained in the equatorial Atlantic and figured by Mr. Dana); long. ¼ in.; 1862, Otia Conch., p. 235.

placidum, Cerithium **Plate 13, fig. 6**

1861, PBSNH, vol. 7, p. 386 (China Seas, W. Stimpson), axis 8, diam. 2 mm.; 1862, Otia Conch., p. 141. Lectotype, here selected, USNM 24137, original no. 443, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 569, pl. 50, figs. 3, 4. NPEE.

planata, Odostomia **Plate 9, fig. 2**

1861, PBSNH, vol. 7, p. 404 (Hong Kong [China], W. Stimpson), axis 6.5, diam. 2 mm.; 1862, Otia Conch., p. 148. Measured holotype USNM 24238, original no. 2098. NPEE.

platessa, Chiton [***Lepidopleurus***]: 1846, PBSNH, vol. 2, p. 140 (New South Wales [Australia], long. ⅞, lat. 9/10 in.; 1852, USEE, vol. 12, p. 320, pl. 28, fig. 431,a; 1862, Otia Conch., pp. 4, 242. An imperfect specimen USNM 19292 with label "Identified by diagnosis. Preserve as type unless another found" (P.P. Carpenter).

plebecula, Nassa **Plate 16, fig. 6**

1860, PBSNH, vol. 7, p. 332 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 15, diam. 7 mm.; 1862, Otia Conch., p. 128. Lectotype, here selected, USNM 24168, original no. 1548; 8 paratypes MCZ *ex* NYSM 14, original no. A 4694. NPEE.

plena, Littorina: 1849, PBSNH, vol. 3, p. 84 (Bay of San Francisco, California), long. ¼, lat. ⅕ in.; 1852, USEE, vol. 12, p. 201, pl. 14, fig. 236,a–b; 1862, Otia Conch., p. 53. 3 syntypes USNM 5635, either of the two larger ones could be the one figured; 2 metatypes MCZ 169298 *ex* NYSM—, original no. G 2568, labeled "San Francisco, California, W. Newcomb."

plicatella, Nassa: 1862, PBSNH, vol. 8, p. 280 (British Burmah [Burma], J. Benjamin), axis 15, diam. 17 mm.; 1862, Otia Conch., p. 237.

plicatula, Rissoina **Plate 15, fig. 5**
1861, PBSNH, vol. 7, p. 401 (Port Lloyd, Bonin Islands; Loo Choo Island [Okinawa, Ryukyu Islands]; Kikaia [Kikaigashima, Ryukyu Islands], W. Stimpson), axis 6, diam. 3 mm.; 1862, Otia Conch., p. 145. Measured holotype USNM 947. NPEE.

plicatum, Cyclostoma [***Ostodes***]: 1847, PBSNH, vol. 2, p. 205 (Upolu, J. P. Couthouy), lat. ⅜, alt. ⅜ in.; 1852, USEE, vol. 12, p. 103, pl. 8, fig. 118,a–b; 1856, ibid., Addenda and Corrigenda, p. 502: not Verneuil 1845, is *Cyclostoma apiae* Recluz 1851, Journ. de Conch., vol. 2, p. 213, pl. 6, figs. 10, 11; 1862, Otia Conch., pp. 38, 244. Measured holotype USNM 5519, figure enlarged; paratype USNM 612303; 10 paratypes MCZ 169300 *ex* NYSM, original no. G 2622; 20 paratypes MCZ 124901, 124905, 134718 *ex* Smithsonian Inst. (printed label).

plumosus, Chiton (***Chaetopleura***): 1859, PBSNH, vol. 7, p. 165 (hab. ?), long. 1.5, lat. .75 in.; 1862, Otia Conch., p. 118. NPEE.

plumulata **'Couthouy' Gould, *Doris:*** 1852, USEE, vol. 12, p. 294, pl. 22, fig. 388,a–c (rocks at the water's edge, near the observing station, Orange Harbor [located on the west side of Bahía Nassau, Tierra del Fuego]), length 2, breadth 1¼ in.; not in 1862, Otia Conch.

pollex, Cyclostoma [***Pollicaria***]: 1856, PBSNH, vol. 6, p. 14 (Tavoy, Burma, F. Mason), long. 1¼, lat. ⅝ in.; 1862, Otia Conch., p. 221.

polychroma **Carpenter, *Corbula:*** 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 198. See Palmer, 1958, Geol. Soc. Amer. Mem. no. 76, p. 117.

polygonius, Cryptodon: 1861, PBSNH, vol. 8, p. 35 (Cape of Good Hope, W. Stimpson), long. 4, alt. 3.5, lat. 3 mm.; 1862, Otia Conch., p. 174. NPEE.

polynyma **Stimpson, *Mactra:*** 1860, Smithsonian Misc. Coll., vol. 2, art. 6, no. 3, p. 3. New name for *Mactra ovalis* Gould, not Sowerby, 1817. See under *ovalis, Mactra.*

pontifica, Pupa (***Cylindrella***) [***Macroceramus***] **Plate 39, fig. 2**
1848, PBSNH, vol. 3, p. 40 ([Florida,] J. Bartlett), extreme length ½, extreme diam. ⅛ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 306, pl. 69, fig. 1; 1862, Otia Conch., p. 205. Lectotype, here selected, MCZ 169301 *ex* NYSM 221, original no. A 6468; 5 paratypes MCZ 169302 and paratype USNM 611258 from same NYSM lot.

pontificalis **'Gould,' *Cylindrella:*** 1875, 27th Ann. Rep. NYSM, p. 51 [nomen nudum].

porata* 'Gould,' *Amnicola: 1875, 27th Ann. Rep. NYSM, p. 49: is *Amnicola porata* Say.

porcata, Neritina **Plate 18, fig. 5**

1847, PBSNH, vol. 2, p. 237 (hab. ?), axis 7/10, diam. ½ in.; 1852, USEE, vol. 12, p. 157, pl. 11, fig. 191 [no such figure] (probably from the Samoan Islands); 1862, Otia Conch., p. 47. Possible measured holotype, here selected, lectotype MCZ 169307 *ex* NYSM 114, original no. G 2630, labeled "Feejee Islands"; 2 paratypes from same lot MCZ 225253; 7 paratypes MCZ 287926 *ex* BSNH 3589; paratype MCZ 216777 *ex* Smithsonian Inst. (printed label); 2 paratypes USNM 19896.

porcatum, Dentalium **Plate 22, fig. 5**

1859, PBSNH, vol. 7, p. 166 (Hong Kong Harbor [China], W. Stimpson), axis 20, diam. 2.5 mm.; 1862, Otia Conch., p. 119. Measured holotype MCZ 169304 *ex* NYSM 149, original no. G 2409; 2 paratypes USNM 24142, original no. 539. NPEE.

Figured by Sowerby *in* Reeve, 1872, Conchologia Iconica, vol. 18, *Dentalium*, pl. 7, fig. 47 [quoted as "Gould ms."]. Undoubtedly figured from a type sent by Gould.

porcellana, Atys **Plate 12, fig. 13**

1859, PBSNH, vol. 7, p. 138 (Kagos[h]ima Bay [Japan], W. Stimpson), axis 12, diam. 5 mm.; 1862, Otia Conch., p. 111. Measured holotype USNM 1357; 4 paratypes USNM 611841 from same lot. NPEE.

***porrecta, Pupa* (*Siphonostoma*) [*Cylindrella*]** **Plate 40, fig. 6**

1842, BJNH, vol. 4, no. 1, back cover (Cuba); 1843, PBSNH, vol. 1, p. 138, long. 3/5, lat. 7/100 in.; 1844, BJNH, vol. 4, p. 490, pl. 24, fig. 12 (Retiro, Cuba); 1862, Otia Conch., p. 189. Lectotype, here J. Bartlett selected, MCZ 169305 *ex* NYSM 226; original no. A 1779; 15 paratypes MCZ 169306 and paratype USNM 611257 from same NYSM lot.

porrecta, Truncatella: 1847, PBSNH, vol. 2, p. 208 (Taheiti [Tahiti, Society Islands]), lat. 3/40, alt. ¼ in.; 1852, USEE, vol. 12, p. 110, pl. 8, fig. 127,a–c: "Only one specimen examined"; 1862, Otia Conch., p. 40. Figured holotype USNM 5527.

Clench and Turner, 1948, Occ. Pap. Moll., vol. 1, no. 13, p. 205, pl. 23, fig. 5, inadvertently selected a lectotype (MCZ 178662) for this species since the figured holotype was not available to them. Their specimen was received from the Smithsonian Institution, but it must have been subsequently identified because Gould based the original description on a single specimen.

praecisa, Mya: 1850, PBSNH, vol. 3, p. 215 (Puget Sound [Washington]), long. 2½, lat. 1, alt. 1¾ in.; 1852, USEE, vol. 12, p. 384, pl. 33, fig. 498,a-b; 1862, Otia Conch., p. 75. Figured holotype USNM 5886, valves very similar but from two separate shells.

praeclara, Clausilia **Plate 41, fig. 12**

1859, PBSNH, vol. 6, p. 424 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 1, diam. max. ¼ in.; 1862, Otia Conch., p. 103. Measured holotype USNM 1920. NPEE.

praestans, Vitrina **Plate 41, fig. 1**

1843, PBSNH, vol. 1, p. 140 ([Tavoy,] British Burmah [Burma], F. Mason), lat. ⅘, alt. ⅔ in.; 1844, BJNH, vol. 4, p. 456, pl. 24, fig. 2; 1862, Otia Conch., p. 190. Lectotype, here selected, MCZ 169308 *ex* NYSM 170, original no. A 1247 labeled "Mergui"; 5 paratypes MCZ 169309 and paratype USNM 611235 from same NYSM lot.

praetenuis* 'Couthouy' Gould, *Sigaretus: 1852, USEE, vol. 12, p. 217, pl. 15, fig. 260,a-b (Orange Harbor [located on the west side of Bahía Nassau, Tierra del Fuego]), length about 1¼, breadth ⅘ in., only one specimen obtained; not in 1862, Otia Conch.

pretiosa, Nuculina: 1861, PBSNH, vol. 8, p. 31 (Simon's Bay, Cape of Good Hope, W. Stimpson), long. 4, lat. 3, alt. 3 mm.; 1862, Otia Conch., p. 170. NPEE.

primitia, Atlanta: 1852, USEE, vol. 12, p. 491, pl. 51, fig. 597 (obtained in the equatorial Atlantic and figured by Mr. Dana, with notes); 1862, Otia Conch., p. 235.

***procera, Cardita* [*Actinobolus*]:** 1850, PBSNH, vol. 3, p. 276 (Rio Negro, Patagonia [Argentina], J. P. Couthouy), long. ⅘, alt. ⅗, lat. ⅕ in.; 1852, USEE, vol. 12, p. 416, pl. 36, fig. 533; 1862, Otia Conch., pp. 83, 246.

***procera, Pupa* [*Vertigo*]:** 1840, BJNH, vol. 3, p. 401, pl. 3, fig. 12 (from Prof. Foreman of Baltimore, who seems to have found it to be plentiful); 1843, BJNH, vol. 4, p. 359: "Both the description and figure of this species are so incorrect that I reproduce an accurate figure, pl. 16, fig. 12. It has not yet been found from any other locality than the vicinity of Baltimore"; 1862, Otia Conch., p. 82: ". . . is *Pupa rupicola* Say."

procera, Succinea: 1846, PBSNH, vol. 2, p. 187 (Eimeo [Moorea, Society Islands]), long. 7/10, lat. 3/10 in.; 1852, USEE, vol. 12, p. 30, pl. 2, fig. 28,a-b (Tahiti and Eimeo [Moorea, Society Islands]); 1862, Otia Conch., p. 30. Figured holotype USNM 5428; 2 paratypes MCZ 169370 *ex* NYSM 184, original no. G 2639, localities not separated.

procumbens, Helix: 1843, PBSNH, vol. 1, p. 139 ([Tavoy,] British Burmah [Burma], F. Mason), diam. ¾, alt. ¼ in.; 1844, BJNH, vol. 4, p. 453, pl. 24, fig. 1; 1862, Otia Conch., p. 189: "Said to be *Helix delibrata* Benson." Figured holotype MCZ 169311 *ex* NYSM 232, original no. A 567; paratype USNM 611226 from same NYSM lot; 2 paratypes MCZ 87935 *ex* BSNH.

productum, Triton: 1852, USEE, vol. 12, p. 240 (Sandwich [Hawaiian] to Feejee [Fiji] Islands, and thence to the Moluccas).

profugus, Unio: 1850, PBSNH, vol. 3, p. 295 (Hunter's River, New South Wales [Australia]), long. 2¾, lat. ⅞, alt. 1½ in.; 1852, USEE, vol. 12, p. 429, pl. 38, fig. 543,a,b; 1862, Otia Conch., p. 88. Half figured holotype USNM 5928, refigured by McMichael and Hiscock, 1958, Australian Journ. of Marine and Freshwater Research, vol. 9, p. 421, pl. 7, figs. 1, 2.

prolatus, Bulimus [***Orthalicus***]**:** 1846, PBSNH, vol. 2, p. 191, (Santiago, Chile, J. P. Couthouy), long. 1¾, lat. 1 in.; 1852,USEE, vol. 12, p. 74, pl. 6, fig. 79,a; 1862, Otia Conch., pp. 3, 244. 3 syntypes USNM 20310.

prolixa, Terebra: 1860, PBSNH, vol. 7, p. 330 (off China Coast, in 23 fathoms, sandy, W. Stimpson), axis 33, diam. 8 mm.; 1862, Otia Conch., p. 127. NPEE.

prostrata, Streptaxis **Plate 41, fig. 4**

1856, PBSNH, vol. 6, p. 12 (Cape Palmas [Liberia] and at Rockbookay, twenty miles in the interior, under dead leaves, G. A. Perkins), long. ⅜, alt. ¼ in.; 1862 Otia Conch., p. 220. Lectotype, here selected, MCZ 169312 *ex* NYSM 228, original no. A 1862; 6 paratypes MCZ 169313, and paratype USNM 611246 from same NYSM lot.

protea, Amnicola: 1855, PBSNH, vol. 5, p. 129 (Colorado Desert, "Gran Jornada" [Imperial Co., Calif.], T. H. Webb and W. P. Blake), long. (exempli maximi) 0.3, lat. 0.1 in.; 1855, *in* Blake, Appendix, Prel. Geol. Rep. R.R. Route to Pacific, p. 24; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 332, pl. 11, figs. 6–9; 1862, Otia Conch., p. 217. 7 syntypes USNM 121074 *ex* I. Lea coll. from W. P. Blake.

protracta, Cylichna **Plate 7, fig. 3**

1859, PBSNH, vol. 7, p. 140 (coast of China, W. Stimpson), axis 12, diam. 5 mm.; 1862, Otia Conch., p. 113. Lectotype, here selected, USNM 1864, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 579, pl. 51, fig. 37. The original label is marked "? Type" but this was the only specimen located. NPEE.

***pruinosus, Chiton* [*Leptochiton*]:** 1846, PBSNH, vol. 2, p. 144 (Rio [de] Janeiro [Brazil]), long. 7/10, lat. 7/20 in.; 1852, USEE, vol. 12, p. 316, pl. 27, fig. 419,a–b (on stones off Fort Santa Cruz, Rio [de] Janeiro [Brazil], 2 or 3 fathoms); 1862, Otia Conch., pp. 5, 242. 2 syntypes USNM 5810; impossible to tell if either is the figured specimen; 2 syntypes MCZ 136619 *ex* BSNH 1455.

***pruninus, Bulimus* [*Napaeus*]:** 1846, PBSNH, vol. 2, p. 191 (hab.?), long. 7/8, lat. 3/8 in.; 1862, USEE, vol. 12, p. 73, pl. 6, fig. 83,a (probably from the Madeira Islands); 1862, Otia Conch., pp. 33, 244. Figured holotype USNM 5485; 3 paratypes MCZ 169314 *ex* NYSM 200, original no. A 4562.

***pruninus, Trochus* [*Cantharis*]:** 1849, PBSNH, vol. 3, p. 90 (Auckland Island [south of New Zealand]), alt. 7/8, lat. 7/10 in.; 1852, USEE, vol. 12, p. 180, pl. 12, fig. 205,a–b; 1862, Otia Conch., 55, 245. Figured holotype USNM 5605.

***Pseudodon*, new subgenus:** 1844, PBSNH, vol. 1, p. 161. Designated type species: *Anodonta inocularis* Gould; 1862, Otia Conch., p. 194: "Perhaps equivalent to *Monocondylaea* D'Orbigny."

puberula, Anodonta: 1852, USEE, vol. 12, p. 434. New name for *Anondonta glauca* Gould, not Lamarck 1819. See under *glauca, Anodonta.*

pudorina, Succinea: 1846, PBSNH, vol. 2, p. 186 (mountains of Taheiti [Tahiti] and Eimeo [Moorea, Society Islands] at an elevation of 2000 to 4000 feet), long. 11/20, lat. 3/10, alt. 1/8 in.; 1852, USEE, vol. 12, p. 21, pl. 2, fig. 27,a–b; 1862, Otia Conch., p. 30. Measured holotype USNM 5427; paratype USNM 612304; 6 paratypes MCZ 169318 *ex* NYSM 173, original no. G 2641; paratype MCZ 155140 *ex* Smithsonian Inst. (printed label).

puella, Neritella: 1859, PBSNH, vol. 7, p. 43 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), lat. max. 7, min. 5 mm.; 1862, Otia Conch., p. 108. NPEE.

puella, Volvarina: 1861, PBSNH, vol. 7, p. 385 (Simon's Bay [Cape of Good Hope], in 18 fathoms, gravelly bottom, W. Stimpson), axis 12, diam. 6 mm.; 1862, Otia Conch., p. 139. Holotype USNM 149, figured by Bartsch, 1915, USNM Bull. 91, p. 38, pl. 1, fig. 1; 2 paratypes MCZ 169317 *ex* NYSM 385, original no. G 2448. NPEE.

puellula, Venus: 1861, PBSNH, vol. 8, p. 30 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), long. 6, alt. 5, lat. 4 mm.; 1862, Otia Conch., p. 169. NPEE.

***puerilis, Natica* [*Lunatia*]** **Plate 16, fig. 12**

1859, PBSNH, vol. 7, p. 44 (Porto Praya [Praia, Cape Verde Islands], W. Stimpson, axis 1/2, diam. 3/8 in.; 1862, Otia Conch., p. 109. Lectotype, here selected, USNM 177893. NPEE.

pullatus, Potamis: 1855, *in* Blake, Appendix, Prel. Geol. Rep. R.R. Route to Pacific, p. 25 (San Diego [California], T. H. Webb and W. P. Blake), length 1¼, diam. ⅝ in.; 1856, *in* Williamson, Rep. Explor. California R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 333, pl. 11, figs. 23, 24. Figured holotype USNM 214402.

pulmonica, Aplysia: 1852, USEE, vol. 12, p. 223, pl. 16, fig. 268 (Tutuilla, Samoa Islands, J. P. Couthouy), long. 6, alt. 2 in.; 1862, Otia Conch., 227.

pulvinaris, Corilla **Plate 36, fig. 8**

1859, PBSNH, vol. 6, p. 424 (Hong Kong, high up in the ravines; also near Canton [China]), diam. ¾, axis ⅝ in.; 1862, Otia Conch., p. 103. Lectotype, here selected, MCZ 169316 *ex* NYSM 286, original no. G 2479, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 581, pl. 51, figs. 39, 51, labeled "Hong Kong." NPEE.

pumilio, Pupa [***Ennea***] **Plate 40, fig. 2**

1843, PBSNH, vol. 1, p. 158, (Cape Palmas, Liberia [ibid., p. 153], Drs. Savage and Perkins), long. 13/20, lat. 7/10 in.; 1862, Otia Conch., p. 193. Lectotype, here selected, MCZ 169319 *ex* NYSM 217, original no. A 1257; paratype MCZ 169320 and paratype USNM 611241 *ex* NYSM 216, original no. A. 1265. The lectotype previously was figured as a cotype by Bequaert and Clench, 1936, Nautilus, vol. 49, p. 93, pl. 6, figs. 1–2.

puncticulata, Monoptygma **Plate 4, fig. 9**

1861, PBSNH, vol. 7, p. 405 (China Seas, W. Stimpson), axis 10, diam. 3.5 mm.; 1862, Otia Conch., p. 149. Lectotype, here selected, MCZ 169322, *ex* NYSM 45, original no. G 2457, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 571, pl. 50, figs. 45, 56; paratype USNM 552. NPEE.

puncticulata, Nematura **Plate 18, fig. 4**

1847, PBSNH, vol. 2, p. 220 (Tavoy [Burma], Mrs. Vinton), long. ⅛, diam. 1/7 and ⅛ in.; 1862, Otia Conch., p. 201. Measured holotype MCZ 169321 *ex* NYSM 100, original G 2575.

puncto-striata, Alaba **Plate 12, fig. 5**

1861, PBSNH, vol. 7, p. 400 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis .18, diam. .07 in.; 1862, Otia Conch., p. 144. Possible syntype USNM 991. It is probable that the original measurements are typographical errors since almost all NPEE measurements are in mm. This specimen might be subsequently selected as lectotype. See plate caption.

pungens, Clavatula **Plate 5, fig. 8**

1860, PBSNH, vol. 7, p. 339 (Hong Kong Harbor [China], in 10 fathoms, shelly sand, W. Stimpson), axis 9, diam. 3 mm.; 1862,

Otia Conch., p. 136. Measured holotype USNM 515, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 576, pl. 51, figs. 17, 18. NPEE.

pungens, Columbella [(***Strombina***)] **Plate 10, fig. 2**

1860, PBSNH, vol. 7, p. 336 (Port Lloyd, Bonin Islands, common, W. Stimpson), axis 10, diam. 4 mm.; 1862, Otia Conch., p. 132. Lectotype, here selected, USNM 903; larger paratype USNM 24153; 4 paratypes MCZ 169323 *ex* NYSM 29, original no. G 2490; paratype MCZ 136616 *ex* BSNH 6411; paratype MCZ 216589 *ex* Smithsonian Inst. (printed label); paratype Redpath Mus. 7987. NPEE.

puniceus **'Couthouy' Gould, *Chiton*** [***Callochiton***]: 1846, PBSNH, vol. 2, p. 143 (Orange Harbor [located on the west side of Bahía, Nassau, Tierra del Fuego]), long. ½, lat. 3/10 in.; 1852 USEE, vol. 12, p. 324, pl. 27, fig. 412,a–d; 1862, Otia Conch., p. 5. Measured holotype USNM 5802, figure enlarged.

pupillus, Trochus [***Ziziphinus***]: 1849, PBSNH, vol. 3, p. 91 (New Zealand), lat. ¼, alt. 3/10 in.; 1852, USEE, vol. 12, p. 186, pl. 12, fig. 208,a–c; 1862, Otia Conch., pp. 56, 245. Figured holotype USNM 5609; 16 paratypes MCZ 216610 *ex* Smithsonian Inst. (printed label).

pupoidea, Valvata **Plate 43, fig. 2**

1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 196 (Fresh Pond, Cambridge, Massachusetts), long. 1/10, lat. 3/40 in.; 1841, Invert. Massachusetts, p. 226, fig. 155. Mentioned as being in Massachusetts State Cabinet no. 65, but specimen lost, and BSNH 1363; 1862, Otia Conch., p. 180; 1870 Invert. Massachusetts, p. 188, fig. 551. Lectotype, here selected, MCZ 169326, *ex* NYSM 101, original no. A 3887a; 160 paratypes MCZ 169327 and 4 paratypes USNM 611278 from same NYSM lot; paratypes MCZ 216824 *ex* BSNH 1363.

pupula, Helix **Plate 38, fig. 5**

1859, PBSNH, vol. 6, p. 423 (among dead leaves in woods, Hakodadi [Hakodate] Island of Jesso [Yezo=Hokkaido, Japan], W. Stimpson), axis ad ⅛ in.; 1862, Otia Conch., p. 102. Lectotype, here selected, MCZ 169329 *ex* NYSM 248, original no. G 2456. NPEE.

pura, Alvania: 1861, PBSNH, vol. 7, p. 402 (Simoda [Shimoda, Japan], W. Stimpson), axis 6; diam. 2 mm.; 1862, Otia Conch., 146. Holotype USNM 157, figured by Bartsch, 1915, USNM Bull. 91, p. 131, pl. 5, fig. 10. NPEE.

pura, Mangelia **Plate 13, fig. 5**

1860, PBSNH, vol. 7, p. 339 (Hong Kong Harbor [China] W. Stimpson), axis 7, diam. 2 mm.; 1862, Otia Conch., p. 136. Prob-

able holotype, here selected, lectotype USNM 24246, original no. 436, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 577, pl. 51, figs. 19, 20. NPEE.

Not *Mangelia pura* Reeve 1846. Changed to *Hemidaphne gouldi* Yen, op. cit.

pura, Tellina: 1853, BJNH, vol. 6, p. 398, pl. 16, fig. 3 (Panama, E. Jewett), diams. long. 1, vert. ⅝, trans. ⅜ in.; 1862, Otia Conch., p. 188.

pusilla, Lucina: 1862, PBSNH, vol. 8, p. 282 (coast of North Carolina, Coast Survey), long. 3, alt. 2.5 mm.; 1862, Otia Conch., p. 239.

***pusilla, Partula* [*Auriculella*]:** 1847, PBSNH, vol. 2, p. 197 (Matea [Makatea Island, Tuamotu Islands], under stones, J. P. Couthouy), long. 3/20, lat. 1/40 in.; 1852, USEE, vol. 12, p. 83, pl. 7, fig. 90,a; 1862, Otia Conch., pp. 33, 244. Holotype USNM 5492, label only, specimen lost.

pusilla, Solemya **Plate 25, fig. 7**

1861, PBSNH, vol. 8, p. 27 (Hakodadi [Hakodate] Bay [Japan], in 5 fathoms, muddy bottom, W. Stimpson), long. 12, alt. 5 mm.; 1862, Otia Conch., p. 165. Measured holotype, USNM 24204, original no. 1679. NPEE.

pusilla, Thracia **Plate 26, fig. 7**

1861, PBSNH, vol. 8, p. 23 (Simoda [Shimoda, Japan], W. Stimpson), long. 8, alt. 5, lat. 4 mm.; 1862, Otia Conch., p. 161. Measured holotype USNM 24060, original no. 2001. NPEE.

***pusillum, Cerithium* [*Bittium*]:** 1849, PBSNH, vol. 3, p. 120 (Sandwich [Hawaiian] Islands), long. 1/5, lat. 1/12 in.; 1852, USEE, vol. 12, p. 150, pl. 10, fig. 172,a–b; 1862, Otia Conch., p. 62. Figured holotype USNM 5572; 4 paratypes MCZ 216606 *ex* Smithsonian Inst. (printed label).

pusillus, Conus: 1853, BJNH, vol. 6, p. 388, pl. 14, fig. 22 (Mazatlan [Mexico], E. Jewett), length ½, breadth 3/10 in.; 1862, Otia Conch., p. 187. Figured holotype MCZ 169325 *ex* NYSM 52, original no. A 4648.

***pusillus, Helix* [*Iberus*]:** 1846, PBSNH, vol. 2, p. 171 (mountains of East Maui, Sandwich [Hawaiian] Islands), long. 7/40, lat. 3/40 in.; 1852, USEE, vol. 12, p. 40, pl. 3, fig. 46,a–c: Not *Helix pusillus* Vallot 1803, Lowe 1831, Scacchi 1832, Roemer 1836, Pfeiffer 1839, changed to *Helix pauxillus;* 1862, Otia Conch., pp. 19, 243. Figured holotype USNM 20964; 12 paratypes MCZ 169288 *ex* NYSM, original no. A 781; 3 paratypes MCZ 169287 *ex* NYSM 240, original no. A 784.

pusillus, Mytilus [(***Modiolarca***)]: 1850, PBSNH, vol. 3, p. 345 (Terra [Tierra] del Fuego), long. ⅛, alt. ⅛ in.; 1852, USEE, vol. 12, p. 455, pl. 44, fig. 585,a–c; 1862, Otia Conch., p. 95. 2½ syntypes USNM 5967; 6 syntypes MCZ 169315 *ex* NYSM 373 original no. G 2571 labeled "Burnt Island, Orange Harbor" [located on the west side of Bahía Nassau, Tierra del Fuego]; syntype MCZ 151792 *ex* Smithsonian Inst. (printed label).

pusillus, Octopus: 1852, USEE, vol. 12, p. 478, pl. 48, fig. 591,a–b (Mangsi Island [Strait of Balabac]), whole length about 3 in.; 1862, Otia Conch., p. 233.

pusillus, Trichotropis **Plate 43, fig. 4**

1850, PBSNH, vol. 3, p. 197 (crevices of rocks beaten by surf, at Fishtown, Liberia, G. A. Perkins), axis ⅛ in. [also collected by USEE]; 1856, USEE, vol. 12, Addenda and Corrigenda, p. 503, pl. 16, fig. 274,a–b. Lectotype, here selected, MCZ 169324 *ex* NYSM 90, original no. G 2692; 18 paratypes MCZ 225232 from same NYSM lot; 16 paratypes MCZ 147677 *ex* BSNH.

putamen, Succinea [***Helisaga***]: 1846, PBSNH, vol. 2, p. 182 (Upolu [Samoa Islands]), long. ⅝, lat. ½ in.; 1852, USEE, vol. 12, p. 13, pl. 2, fig. 16,a; 1862, Otia Conch., pp. 28, 244. Figured holotype USNM 5416; 4 paratypes MCZ 169328 *ex* NYSM 172, original no. G 2640.

pyriformis, Mytilus: 1850, PBSNH, vol. 3, p. 344 (South Seas), long. 3½, alt. 1¾, lat. 1½ in.; 1852, USEE, vol. 12, p. 451, pl. 41, fig. 564,a; 1862 Otia Conch., p. 94.

pyriformis, Trochus (***Monodonta***) [***Osilinus***] **Plate 15, fig. 13**

1853, BJNH, vol. 6, p. 382 (San Diego [California], T. P. Green), axis 1½, diam. 1¼ in.; 1862, Otia Conch., p. 186: ". . . is *Osilinus gallina* Forbes, variety." Measured holotype MCZ 169435 *ex* NYSM 126, original no. 155.

quadrans, Astarte **Plate 30, fig. 3**

1841, Invert. Massachusetts, p. 81, fig. 48 (stomach of fish caught in Massachusetts Bay, Drs. Prescott and Storer), length 9/20, height 3/20, breadth 2/20 in. Mentioned as being in Massachusetts State Cabinet no. 202 and BSNH 2331 [specimen lost]; 1862, Otia Conch., p. 181; 1870, Invert. Massachusetts, p. 123, fig. 434. Lectotype, here selected, MCZ 143295 *ex* Massachusetts State Cabinet, labeled "Swampscott" [Massachusetts].

quadrata, Alvania: 1861, PBSNH, vol. 7, p. 402 (China Seas, W. Stimpson), axis 1.6; diam. .8 mm.; 1862, Otia Conch., p. 146. Type lot USNM 389 not found. NPEE.

quadrata, Erycina [(**Kellia**)]: 1850, PBSNH, vol. 3, p. 252 (Feejee [Fiji] Islands?), long. ½, alt. ⅜, lat. ¼ in.; 1852, USEE, vol. 12, p. 402, pl. 44, fig. 586,a–c; 1862, Otia Conch., p. 78.

quadrula, Modiolaria **Plate 23, fig. 1**
1861, PBSNH, vol. 8, p. 38 (Kagos[h]ima [Japan], W. Stimpson), long. 5, alt. 2 mm.; 1862, Otia Conch., p. 177. Half measured holotype USNM 24064, original no. 1419. NPEE.

quantilla, Collonia: 1861, PBSNH, vol. 8, p. 22 (Simon's Bay [Cape of Good Hope], W. Stimpson), diam. 3, axis 2+ mm.; 1862, Otia Conch., p. 160. Holotype USNM 135, figured by Bartsch, 1915, USNM Bull. 91, p. 148, pl. 23, figs. 7, 8, 9. NPEE.

quantula, Nassa **Plate 16, fig. 3**
1860, PBSNH, vol. 7, p. 331 (St. Simon's Bay [Cape of Good Hope], W. Stimpson), axis 7, diam. 3 mm.; 1862, Otia Conch., p. 128. Measured holotype USNM 224. NPEE.

quercinus, Chiton [***Onythochiton***]: 1846, PBSNH, vol. 2, p. 142 (New South Wales [Australia], Mrs. Mitchell), long. ⅞, lat. ⅝ in.; 1852, USEE, vol. 12, p. 312, pl. 28, fig. 437,a; 1862, Otia Conch., pp. 3, 242. Figured holotype USNM 5828.

quercinus, Stylocheilus: 1852, USEE, vol. 12, p. 226, pl. 16, fig. 271 (dredged at Lebuka [Levuka Island], Feejee [Fiji] Islands), long. 3½ in.; 1862, Otia Conch., p. 227.

radiata, Achatinella: 1845, PBSNH, vol. 2, p. 27 (Sandwich [Hawaiian] Islands), long. ¾, lat. ⅝₀ in.; 1862, Otia Conch., p. 195. Type lot original no. A 1197, listed as being lost, 1875, 27th Ann. Rep. NYSM, p. 13.

radiata, Emarginula [(***Clypidina***)] **Plate 18, fig. 7**
1859, PBSNH, vol. 7, p. 163 (Sydney Harbor [New South Wales, Australia], W. Stimpson), long. 12, lat. 8, alt. 7 mm.; 1862, Otia Conch., p. 116. Measured holotype USNM 266. NPEE.

radiosa, Calyptraea: 1846, PBSNH, vol. 2, p. 161 (Mangsi Island [Strait of Balabac]), diam. ½, alt. ⅛₀ in.; 1852, USEE, vol. 12, p. 381, pl. 32, fig. 488,a–c; 1862, Otia Conch., p. 15.

ramentosa, Helix: 1856, PBSNH, vol. 6, p. 11, (California, cabinet of W. Newcomb), axis ½, diam. ⅛ in.; 1862, Otia Conch., p. 219. Syntypes, Cornell University, Ithaca, New York, Paleo. Dept. 27443 and 27444 labeled "Mission Peak, 8 miles from Oakland California." I could not locate these lots in the collection.

ramulosa, Lucina [***Codakia***]: 1850, PBSNH, vol. 3, p. 255 (Paumoto [Tuamotu] Islands), diam. 1, lat. ½ in.; 1852, USEE, vol. 12, p. 415, pl. 36, fig. 523,a–b; (Paumoto [Tuamotu] Islands: collected at Raraka, Clermont-Tonnerre [Reao], Belling[s]hausen [Island, Society Islands], Carlshoff [Aratica], and Honden [Henuake or Pukapuka]); 1862, Otia Conch., pp. 82, 246. Figured holotype USNM 42778; 4 paratypes MCZ 169332 *ex* NYSM 365, original no. G 2542; 6 paratypes MCZ 216821 *ex* Smithsonian Inst. (printed label).

ravus, Conus: 1853, BJNH, vol. 6, p. 386, pl. 14, fig. 21 (Santa Barbara [California], E. Jewett), length 1⅛, breadth ¾ in.; 1862, Otia Conch., p. 187. 1 ideotype MCZ 169333 *ex* NYSM 51, original no. A 3215, labeled "Acapulco, Mexico."

reciproca, Drillia **Plate 7, fig. 12**

1860, PBSNH, vol. 7, p. 336 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 12, diam. 4 mm.; 1862, Otia Conch., p. 133. Lectotype, here selected, MCZ 169334 *ex* NYSM 3, original no. G 2492. NPEE.

redimita, Gibbula: 1861, PBSNH, vol. 8, p. 20 (Hakodadi [Hakodate Bay [Japan], W. Stimpson), axis 7, diam. 6 mm.; 1862, Otia Conch., p. 159. Type lot USNM 1683 not found. NPEE.

refuga, Helix [*Corilla*] **Plate 38, fig. 9**

1846, PBSNH, vol. 2, p. 99 (Tavoy, British Burmah [Burma], F. Mason), diam. ⅜, alt. ¼ in.; 1862, Otia Conch., p. 198. Measured holotype MCZ 169335 *ex* NYSM 271, original no. A 562; paratype USNM 611231 from same NYSM lot; paratype MCZ 87871 *ex* BSNH.

regularis, Cylichna **Plate 7, fig. 5**

1859, PBSNH, vol. 7, p. 140 (Sydney Harbor [New South Wales, Australia], W. Stimpson), axis 9, diam. 4 mm.; 1862, Otia Conch., p. 112. Measured holotype USNM 296. NPEE.

remigata, Embletonia: 1870, Invert. Massachusetts, p. 252, pl. 16, figs. 214–217 (found in Charles River on logs in timber docks and at South Boston Bridge [Massachusetts] on *Laomedea geniculata*, July 1842 and 1865), length ¼, breadth ⅒ in.

repercussa, Helix [*Corilla*] **Plate 37, fig. 3**

1856, PBSNH, vol. 6, p. 11 (Tavoy and [other] Mergui [Islands, Burma], J. Benjamin), diam. 1, alt. ⅜ in.; 1862, Otia Conch., p. 219. Lectotype, here selected, MCZ 169336 *ex* NYSM 236, original no. A 564; 4 paratypes MCZ 169337 and paratype USNM 611236 from same NYSM lot.

reposta, Nassa: 1860, PBSNH, vol. 7, p. 331 ("Sydney, New South Wales?" [Australia]), axis 12, diam. 7 mm.; 1862, Otia Conch., p. 127. NPEE.

Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 318, mentions that he was unable to locate this species in any collection he visited.

reticulata, Physa: 1847, PBSNH, vol. 2, p. 215 (Sandwich [Hawaiian] Islands), long. ⅞, lat. ⅝ in.; of another, long. ½; lat. ¼ in.; 1852, USEE, vol. 12, p. 118, pl. 9, fig. 140,a–b; 1862, Otia Conch., p. 43. Figured holotype USNM 5540, badly broken; 3 paratypes USNM 20710; 5 paratypes MCZ 216780 *ex* Smithsonian Inst. (printed label).

***retrorsa, Helix* (*Caracolla*)** **Plate 38, fig. 10**
1843, PBSNH, vol. 1, p. 139 ([Tavoy,] British Burmah [Burma], F. Mason), lat. 1¾, alt. 1 in.; 1844, BJNH, vol. 4, p. 455, pl. 24, fig. 5; 1862, Otia Conch., p. 189. Measured type, here selected, lectotype MCZ 169330 *ex* NYSM 237, original no. A 708; 2 paratypes MCZ 169331 and paratype USNM 611233 from same NYSM lot. Paratype MCZ 220663 *ex* BSNH 2642, original no. 4372 from A. A. Gould.

revularis, Ostrea: 1861, PBSNH, vol. 8, p. 39 (China Seas, as indicated by shells adhering to it), diam. 60, lat. 10 mm.; 1862, Otia Conch., p. 178. NPEE.

***rigida, Venus* [*Tapes*]:** 1850, PBSNH, vol. 3, p. 277 (Puget Sound [Washington], Straits of [Juan] de Fuca, Mr. Case and Dr. Pickering), long. 2, alt. 1⅝, lat. 1½ in., also long. 3¾; alt. 2¾, lat. 1½ in.; 1852, USEE, vol. 12, p. 420, pl. 37, fig. 538,a–b; 1862, Otia Conch., p. 85. Figured holotype USNM 5923.

See note by P. P. Carpenter, 1864, Rep. British Assn. Adv. Sci. 1863, p. 531.

rigida* 'Gould' Carpenter, *Venus: 1864, Rep. British Assn. Adv. Sci. 1853, p. 584: not Gould, 1850 [nomen nudum], is *Venus adamsii* Reeve.

***Rissolina*, new subgenus:** 1861, PBSNH, vol. 7, p. 401; 1862, Otia Conch., p. 145. Type species, by subsequent designation: *Rissolina plicatula* Gould, G. Nevill, 1885, Hand-list of Mollusca in the Indian Museum, pt. 2, pp. 73, 77.

robusta, Vitrina: 1846, PBSNH, vol. 2, p. 181 (New South Wales, Mr. Mitchell), diam. max. ½, alt. ¼ in.; 1852, USEE, vol. 12, p. 10, pl. 1, fig. 11,a–b; 1862, Otia Conch., p. 27. Figured by Cox, 1868, Monograph Australian Land Shells, p. 84, pl. 20, fig. 17. "From a painting by Angas of a specimen presented by Gould to the British Museum," teste Iredale, 1937, Basic List of the Land Mollusca of Australia, pt. 2, p. 9.

***rodgersi, Buccinum* [*Neptunea*]** **Plate 11, fig. 2**
1860, PBSNH, vol. 7, p. 326 (Arikamcheche [Arakamchechen] Island, Behring's [Bering] Straits, common in 20–30 fathoms, muddy gravel, W. Stimpson; Arctic Ocean, north of Behring's [Bering] Straits, Capt. Rodgers); long. 55, diam. 25 mm.; 1862, Otia Conch., p. 122. Measured holotype MCZ 169338 *ex* NYSM 7, original no. A 6307 presumed to be from latter locality; paratype MCZ 169339 from same NYSM lot. NPEE.

rorata, Mitra: 1850, PBSNH, vol. 3, p. 171 (hab. ?, Mr. Walker), long. ⅘, lat. ⅗ in.; 1852, USEE, vol. 12, p. 272, pl. 20, fig. 354,a; 1862, Otia Conch., p. 72. Figured holotype USNM 5749.

***rosaceum, Buccinum* [*Astyris*]** **Plate 11, fig. 3**
1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 197 (fish off Cohasset [Massachusetts]), long. 3/10, lat. 3/20 in.; 1841, Invert. Massachusetts, p. 311, fig. 195. Mentioned as being in Massachusetts State Cabinet no. 4 and BSNH 2379, but both specimens lost; 1862, Otia Conch., p. 180; 1870, Invert. Massachusetts, p. 357, fig. 627 [genus changed to *Columbella*]. Lectotype, here selected, MCZ 169340 *ex* NYSM 384; paratype MCZ 169341 and paratype USNM 611265 from same NYSM lot.

roscida, Chione **Plate 29, fig. 5**
1861, PBSNH, vol. 8, p. 31 (harbors of Ousima [Amami-O-shima, Ryukyu Islands], in sand, 15 fathoms, W. Stimpson), long. 13, alt. 9, lat. 5 mm.; 1862, Otia Conch., p. 169. Measured holotype USNM 1896; paratype USNM 611830 from same lot. NPEE.

***rosea, Cypricardia* [*Trapezium*]:** 1850, PBSNH, vol. 3, p. 276 (Feejee [Fiji] Islands), long. 1¾, alt. 3/5, lat. 2/5 in.; 1852, USEE, vol. 12, p. 389, pl. 37, fig. 535,a–b; 1862, Otia Conch., p. 84. Figured holotype USNM 5920.

***roseum, Cyclostoma* [*Omphalotropis*]:** 1847, PBSNH, vol. 2, p. 205 (Feejee [Fiji] Islands), lat. 1/5, alt. 7/20 in.; 1852, USEE, vol. 12, p. 105, pl. 8, fig. 121,a–b; 1862, Otia Conch., pp. 39, 244. 3 syntypes USNM 5522, any might be the one figured; 24 syntypes MCZ 169342 *ex* NYSM 332, original no. G 2632; 4 syntypes MCZ 216575 *ex* BSNH 2865 from J. P. Couthouy; 16 syntypes MCZ 156373 *ex* Smithsonian Inst. (printed label).

rostrata, Truncatella **Plate 17, fig. 1**
1847, PBSNH, vol. 2, p. 209 (Rio [de] Janeiro [Brazil], J. P. Couthouy), lat. 3/40, alt. 3/40 in.; 1852, USEE, vol. 12, p. 111, pl. 8, fig. 128,a–b; 1862, Otia Conch., p. 40. Lectotype, MCZ 169343 *ex* NYSM 334, original no. G 2541a, selected by Clench and Turner, 1948, Johnsonia, vol. 2, p. 163, pl. 73, fig. 2, who doubted if the locality was accurate; 3 paratypes MCZ 169344 from same NYSM lot; paratype USNM 5529, figured by Gould, 1852, USEE, vol. 12, pl. 8, fig. 128.

rostriformis, Crepidula: 1846, PBSNH, vol. 2, p. 160 (Straits of [Juan] de Fuca, Oregon [Washington]), long. 3/4, lat. 1/2, alt. 3/8 in.; 1852, USEE, vol. 12, p. 375, pl. 32, fig. 482,a–b; 1862, Otia Conch., pp. 14, 243: ". . . is *Crepidula adunca* Sowerby." Figured holotype USNM 5872; 7 ideotypes MCZ 169345 *ex* NYSM 109, original no. A 46, labeled "Santa Barbara, California, E. Jewett."

rotata, Loripes: 1861, PBSNH, vol. 8, p. 32 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), diam. 59, lat. 5 mm.; 1862, Otia Conch., p. 170. NPEE.

rotellinus, Trochus (Monodonta) [Camitia]: 1849, PBSNH, vol. 3, p. 108 (Mangsi Island [Strait of Balabac], Pickering), diam. ⅜, alt. ⅛ in.; 1852, USEE, vol. 12, p. 191, pl. 13, fig. 222,a–b; 1862, Otia Conch., pp. 59, 244. Figured holotype USNM 5622; paratype USNM 612324.

rotula, Helix: 1848, PBSNH, vol. 3, p. 38 (Tennessee, J. Bartlett), diam. ⅛ in.; not Lowe 1833, changed to *Helix capsella* Gould *in* A. Binney, 1851, Terr. Moll. U.S., vol. 2, p. 239, pl. 29a, fig. 1; 1862, Otia Conch., p. 203.

rotundata, Succinea [Helisaga]: 1846, PBSNH, vol. 2, p. 182 (mountains of Oahu, Sandwich [Hawaiian] Islands, Pickering), long. 1/10, lat. 7/20, alt. 3/20 in.; 1852 USEE, vol. 12, p. 15, pl. 2, fig. 14,a–c; 1856, ibid., Addenda and Corrigenda, p. 500; 1862, Otia Conch., pp. 27, 244. Figured holotype USNM 5414 reduced to fragments; paratype USNM 208666 also damaged.

rubens, Achatinella **Plate 42, fig. 6**

1845, PBSNH, vol. 2, p. 27 (Sandwich [Hawaiian] Islands), long. ¾, lat. ⅝ in.; 1862, Otia Conch., p. 195. Lectotype, here selected, MCZ 169350 *ex* NYSM—, original no. A 1471; 20 paratypes MCZ 169351 and 2 paratypes USNM 611220 from same NYSM lot.

rubicunda, Clathurella **Plate 12, fig. 19**

1860, PBSNH, vol. 7, p. 338 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 5, diam. 2 mm.; 1862, Otia Conch., p. 135. Measured holotype USNM 24163, original no. 1038. NPEE.

rubicunda, Tellina **Plate 24, fig. 4**

1845, PBSNH, vol. 2, p. 37 (Liberia, C. J. Bates), long. 1, alt. ⅝, lat. ⅛ in.; 1862, Otia Conch., p. 196. Measured holotype MCZ 169346 *ex* NYSM 349, original no. G 2087.

rubicundulus, Bulimus: 1843, PBSNH, vol. 1, p. 158 (Cape Palmas, Liberia [ibid., p. 153], Africa, Drs. Savage and Perkins), long. ½, lat. 1/10 in.; 1850, PBSNH, vol. 3, p. 197: ". . . is a variety of *Bulimus interstinctus* Gould"; 1862, Otia Conch., p. 192.

rubida, Assiminea **Plate 12, fig. 6**

1859, PBSNH, vol. 7, p. 42 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), alt. 7/40, diam. 3/20 in.; 1862, Otia Conch., p. 107. Measured holotype USNM 24235, original no. 2102. NPEE.

rubida, Diphyllidia: 1852, USEE, vol. 12, p. 307, pl. 26, fig. 406,a (a coral reef, Honolulu, Oahu [Hawaiian Islands], Pickering), long. 1¼ in.; 1862, Otia Conch., p. 230.

rubidus, Ziziphinus: 1861, PBSNH, vol. 8, p. 18 (hab.?), axis 15, diam. 12 mm.; 1862, Otia Conch., p. 157. NPEE.

rubiginosa, Bulla: 1852, USEE, vol. 12, p. 221, pl. 15, fig. 226 (near the mouth of the harbor of Rio [de] Janeiro [Brazil], J. P. Couthouy), length ½ in. It is claimed that this species was de-

scribed in 1849, PBSNH, vol. 3, p. 107, but this is not so; not in 1862, Otia Conch.

rubiginosa, Helix: 1846, PBSNH, vol. 2, p. 173 (Kauai, Sandwich [Hawaiian] Islands, J. P. Couthouy), lat. 7/30, alt. 3/40 in.; 1852, USEE, vol. 12, p. 50, pl. 4, fig. 49,a–c; 1862, Otia Conch., pp. 21, 243. Figured holotype USNM 5449.

rubricata, Helix (***Nanina***) [***Hemiplecta***] **Plate 39, fig 7.** 1846, PBSNH, vol. 2, p. 178 (Lebouka [Levuka Island] Feejee [Fiji] Islands), lat. 1, alt. 3/8 in.; 1852, USEE, vol. 12, p. 29, pl. 5, fig. 66,a; 1862, Otia Conch., pp. 25, 243. Possible measured holotype, here selected, lectotype MCZ 169347 *ex* NYSM 276, original no. A 582; 3 paratypes MCZ 156367 *ex* Smithsonian Inst. (printed label). Not found in USNM.

rubricata, Nassa: 1850, PBSNH, vol. 3, 155 (Pacific shore), long. 5/8, lat. 1/3 in.; 1852, USEE, vol. 12, p. 265, pl. 19, fig. 332,a (habitat a little uncertain, but probably is the Pacific coast of America); 1862, Otia Conch., p. 70. Figured holotype USNM 5728; 3 paratypes MCZ 216596 *ex* Smithsonian Inst. (printed label).

rufa* 'Gould' Carpenter, *Ostrea: 1864, Rep. British Assn. Adv. Sci. 1863, p. 552 [nomen nudum].

rufula, Ethalia: 1861, PBSNH, vol. 8, p. 17 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 4, diam. 6 mm.; 1862, Otia Conch., p. 155. NPEE.

rugatum, Chlorostoma **Plate 10, fig. 5** 1861, PBSNH, vol. 8, p. 20 (Hakodadi [Hakodate] Bay and Simoda [Shimoda, Japan], W. Stimpson), diameters about 1 in.; 1862, Otia Conch., p. 158. Measured holotype USNM 1626; 7 paratypes MCZ 169348 *ex* NYSM 133, original no. G 2417, labeled "Hakodadi, Japan"; 2 paratypes MCZ 38005 *ex* BSNH 4040 from W. Stimpson NPEE.

rugosa, Cerithiopsis: 1861, PBSNH, vol. 7, p. 388 (China Seas, W. Stimpson), axis 15, diam. 4mm.; 1862, Otia Conch., p. 143. NPEE.

ruida, Helix [(***Nanina***)]: 1846, PBSNH, vol. 2, p. 178 (Feejee [Fiji] Islands), lat. 1/2, alt. 3/8 in.; 1852, USEE, vol. 12, p. 65: "Probably an immature specimen of *H. townsendiana* Lea"; 1862, Otia Conch., p. 24. 2 syntypes MCZ 169349 *ex* NYSM 280, original no. G 2562.

ruivensis* 'Couthouy' Gould, *Vitrina: 1846, PBSNH, vol. 2, p. 180 (Madeira Island, 30 feet from the summit of Pico de Ruivo, 6210 feet altitude, J. P. Couthouy), lat. 25/40, alt. 1/40 in.; 1852, USEE, vol. 12, p. 6, pl. 1, fig. 7,a-d; 1856, ibid., Addenda and Corrigenda, p. 500; 1862, Otia Conch., pp. 26, 244. Type USNM 20876 reduced to fragments. Only two specimens were obtained.

russa, Mitra **Plate 4, fig. 11**
1860, PBSNH, vol. 7, p. 333 ("China Seas," W. Stimpson), axis 6, diam. 3 mm.; 1862, Otia Conch., p. 129. Lectotype, here selected, USNM 24164, original no. 431, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 574, pl. 51, figs. 58, 59. NPEE.

russa, Natica [***Neverita***]: 1859, PBSNH, vol. 7, p. 43, (Arctic Ocean, W. Stimpson), axis 18, diam. 16 mm.; 1862, Otia Conch., p. 109. NPEE.

rustica, Corbula [(***Azara***)]: 1861, PBSNH, vol. 8, p. 25 (Whampoa [Island, near Hong Kong, China], W. Stimpson), long. 15, alt. 9, lat. 5 mm.; 1862, Otia Conch., p. 164. Type lot USNM 2067 not found. NPEE.

rusticana, Succinea: 1846, PBSNH, vol. 2, p. 187 (Oregon), long. ½, lat. ¼ in.; 1852, USEE, vol. 12, p. 28, pl. 2, fig. 29,a-b; 1862, Otia Conch., p. 31. Measured holotype USNM 5429.

rutilus, Onychoteuthis: 1852, USEE, vol. 12, p. 482, pl. 50, fig. 595,a-c (South Pacific, near Sydney, New South Wales [Australia]), whole length 8½, of body 4, of head ¾, of long arm 4, of fin 2, breadth of body 1⅛, of fin 3⅝ in.; 1862, Otia Conch., p. 234.

saccata, Arthemis: 1851, PBSNH, vol. 4, p. 91 (Mazatlan [Mexico], T. P. Green), long. 1⅝, alt. 1½, lat. ⅞ in.; 1853, BJNH, vol. 6, p. 396, pl. 15, fig. 2; 1862, Otia Conch., p. 213: ". . . is *Cyclina subquadrata* Hanley 1845." Figured holotype MCZ 169353 *ex* NYSM 359; original no. G 1233.

saccularia, Tellina (**subgenus *Arcopagia***): 1861, PBSNH, vol. 8, p. 29 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 10, alt. 9, lat. 6 mm.; 1862, Otia Conch., p. 167. NPEE.

sacratum, Cerithium (***Potamis***): 1849, PBSNH, vol. 3, p. 118 (Sacramento River, California), long. 1½, lat. ⅝ in.; 1852, USEE, vol. 12, p. 144, pl. 10, fig. 166,a; 1862, Otia Conch., p. 60. Holotype USNM 5566; 4 ideotypes MCZ 169352 *ex* NYSM 59, original no. A 121, from San Francisco, California.

sagittata, Patella: 1846, PBSNH, vol. 2, p. 148 (Feejee [Fiji] Islands, Pickering), long. 1⅓, lat. 1$\frac{1}{10}$, alt. ⅝ in.; 1852, USEE, vol. 12, p. 337, pl. 29, fig. 449,a-c; 1862, Otia Conch., p. 7. Figured holotype USNM 5839; 3 paratypes MCZ 197144 *ex* Smithsonian Inst. (printed label).

sagittifer, Capulus: 1852, USEE, vol. 12, p. 383, pl. 32, fig. 486,a–d (hab.?), diam. ¼, alt. $\frac{1}{10}$ in.; 1862, Otia Conch., p. 226. Figured holotype USNM 5876.

sagrinata, Panopaea: 1861, PBSNH, vol. 8, p. 25 (Awatska Bay, Kamtschatka [Kamchatka, Siberia]), no measurements; 1862, Otia Conch., p. 164 [nomen nudum]. NPEE.

From the context of the description it would appear that Gould was mentioning this name only to suppress it under his *Panopaea generosa.*

salweniana, Anodon[ta] **Plate 34, fig. 2**

1843, PBSNH, vol. 1, p. 160 (Salw[e]en River, British Burmah [Burma], F. Mason), long. 5½, alt. 2⅔, lat. 1¼ in.; 1862, Otia Conch., p. 193. Lectotype, here selected, MCZ 169445 *ex* NYSM 870, original no. A 5670.

santa-barbarensis **Carpenter, *Columbella:*** 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 208. See Palmer, 1958, Geol. Soc. Amer. Mem., no. 76, p. 212.

sapotilla, Nucula **[*Yoldia*]** **Plate 23, fig. 3**

1841, Invert. Massachusetts, p. 100 (Provincetown Harbor, Cape Cod [Massachusetts], Col. Totten), length 1/10, height ⅛, breadth 1/10 in. Mentioned as being in Massachusetts State Cabinet no. 182 and BSNH 2338, but both specimens lost. Claimed to be a new name for *Nucula laevigata* Gould 1838 [nomen nudum] not Sowerby 1818; 1862, Otia Conch., p. 181; 1870, Invert. Massachusetts, p. 159, fig. 466. Lectotype, here selected, MCZ 169354 *ex* NYSM 375, original no. A 5421; paratypes MCZ 169355 and paratype USNM 611275 from same NYSM lot.

saturnia, Helix: 1846, PBSNH, vol. 2, p. 98 (Tavoy, British Burmah [Burma], F. Mason), diam. 2, alt. 1¼ in.; 1862, Otia Conch., p. 198.

saxatilis, Helix: 1846, PBSNH, vol. 2, p. 171 (Terra [Tierra] del Fuego), alt. 1/10, lat. ¼ in.; 1852, USEE, vol. 12, p. 42, pl. 3, fig. 33,a–c (Orange Harbor [located on the west side of Bahía Nassau], Tierra del Fuego, J. P. Couthouy); 1862, Otia Conch., p. 19. Figured holotype USNM 5433; paratype MCZ 98972 *ex* Smithsonian Inst. (printed label).

scabra, Patella **(*Lottia*) [*Tectura*]:** 1846, PBSNH, vol. 2, p. 152 (Bay of San Francisco, California), long. ⅞, lat. ⅝, alt. ⅜ in.; 1852, USEE, vol. 12, p. 348, pl. 29, fig. 456,a–b; 1862, Otia Conch., pp. 10, 243. Figured holotype USNM 5840.

scalariformis, Fusus **[*Trophon*]** **Plate 6, fig. 4**

1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 197 (mostly taken from codfish), long. 1.75, lat. 0.8 in.; 1841, Invert. Massachusetts, p. 288, fig. 203 ([Grand] Bank[s] Fisheries [off Nova Scotia], Col. Totten and J. B. Forsyth; Massachusetts Bay, J. P. Couthouy). Mentioned as being in Massachusetts State Cabinet

no. 164 and BSNH 2356 [specimen lost]; 1862, Otia Conch., p. 180; 1870, Invert. Massachusetts, p. 378, fig. 644. Lectotype, here selected, MCZ 216843 *ex* Massachusetts State coll.

scalarina, Odostomia **Plate 21, fig. 10**

1861, PBSNH, vol. 7, p. 405 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 4, diam. 1+ mm.; 1862, Otia Conch., p. 149. Measured holotype USNM 1033. NPEE.

scalarina, Vanicoro: 1859, PBSNH, vol. 7, p. 44 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), long. 10, lat. 8 mm.; 1862, Otia Conch., p. 110. Type lot, USNM 1033, not found. NPEE.

scalprum, Solen [***Siliqua***]: 1850, PBSNH, vol. 3, p. 214 (Singapore), long. 1¾, lat. ⅝, alt. $^{7}/_{10}$ in.; 1852, USEE, vol. 12, p. 388, pl. 33, fig. 502,a–b; 1862, Otia Conch., pp. 74, 245. Figured holotype USNM 5889.

scaphoidea, Limacina: 1852, USEE, vol. 12, p. 485, pl. 51, fig. 602,a–b (taken in the equatorial Atlantic and figured by J. D. Dana); diam. $^{1}/_{10}$ in.; 1862, Otia Conch., p. 234.

scipio, Melania: 1847, PBSNH, vol. 2, p. 224 (Samoa and Feejee [Fiji] Islands), long. 1½ (integer 3), lat. ½ in.; 1852, USEE, vol. 12, p. 134, pl. 9, fig. 156,a–e; 1856, ibid., Addenda and Corrigenda, p. 502; 1862, Otia Conch., p. 45. Lectotype, here selected, USNM 5556 is fig. 156; figured paratype USNM 612317 is fig. 156b,c; paratype USNM 612313; 12 paratypes MCZ 169356 *ex* NYSM 77, original no. A 4109; 8 paratypes MCZ 87882 *ex* BSNH 3115; 5 paratypes Redpath Mus. 4259 *ex* Smithsonian Inst.

scitula, Melania: 1847, PBSNH, vol. 2, p. 224 (Upolu, Samoa Islands, J. P. Couthouy), long. ⅞, lat. ¼ in.; 1852, USEE, vol. 12, p. 140, pl. 10, fig. 158,a–b; 1862, Otia Conch., p. 46. Figured holotype USNM 5558; 7 paratypes MCZ 169357 *ex* NYSM 68, original no. G 2398; 4 paratypes MCZ 87929 *ex* BSNH 3116.

scitulum, Cyclostoma [***Omphalotropis***]: 1847, PBSNH, vol. 2, p. 206 (Taheiti [Tahiti], Eimeo [Moorea, Society Islands], and Manua [Samoan Islands], J. P. Couthouy), long. ⅛, alt. ⅛ in.; 1852, USEE, vol. 12, p. 108, pl. 8, fig. 123,a–b; 1862, Otia Conch., p. 39. 2 syntypes USNM 5524, either could be the figured specimen; syntype MCZ 169358 *ex* NYSM 325, original no. G 2634, could also be the figured specimen.

scobinata, Scutellina **Plate 21, figs. 4, 5**

1859, PBSNH, vol. 7, p. 162 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), long. 8, lat. 7, alt. 4 mm.; 1862, Otia Conch., p. 115. Measured holotype USNM 24141, original no. 2124; paratype MCZ 169359 *ex* NYSM 154, original no. G 2441. NPEE.

scorpio, Helix (***Nanina***) [***Orpiella***]: 1846, PBSNH, vol. 2, p. 178 (Feejee [Fiji] Islands, Drayton), lat. ¾, alt. ⅝ in.; 1852, USEE, vol. 12, p. 38, pl. 5, fig. 67,a; 1862, Otia Conch., pp. 24, 243.

"Gould never saw the shell of his *O. scorpio*, but the animal figured is that of this group and the 'shell' is evidently a careless sketch of its naked apical whorls. *O. scorpio*, the animal, probably came from one of the shells on which *O. casca* was founded" H. B. Baker, 1941, B. P. Bishop Mus. Bull. no. 166, p. 250.

scutulata, Littorina: 1849, PBSNH, vol. 3, p. 83 (Puget Sound, Oregon [Washington], Pickering), long. ¾, lat. ⅝ in.; 1852, USEE, vol. 12, p. 200, pl. 14, fig. 241,a; 1862, Otia Conch., p. 53. Figured holotype USNM 5640; paratype USNM 612308; 7 ideotypes MCZ 169360 *ex* NYSM 83, original no. G 2567, labeled "San Francisco, California, W. Newcomb."

secale, Actaeon **Plate 12, fig. 4**

1859, PBSNH, vol. 7, (China Seas, W. Stimpson), axis 4; diam. 2 mm.; 1862, Otia Conch., p. 113. Measured holotype USNM 557, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 577, pl. 51, fig. 32. NPEE.

secalina, Mitra **Plate 4, fig. 12**

1860, PBSNH, vol. 7, p. 333 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 6, diam. 3 mm.; 1862 Otia Conch., p. 129. Lectotype, here selected, USNM 2021; paratype USNM 24185. NPEE.

sectilabrum, Cyclostoma [***Coptocheilus***]: 1843, PBSNH, vol. 1, p. 140 ([Tavoy,] British Burmah [Burma], F. Mason), alt. 1, lat. ⅝ in.; 1844, BJNH, vol. 4, p. 459, pl. 24, fig. 10; 1862, Otia Conch., p. 190. Figured holotype MCZ 169361 *ex* NYSM 316; paratype MCZ 87934 *ex* BSNH 5395; 4 paratypes MCZ 156374 *ex* C. B. Adams coll.; 2 paratypes USNM 104756 *ex* I. Lea coll. from Gould.

secura, **Bartsch,** ***Turbonella*** (***Striothurbonilla***): 1915, USNM Bull. 91, p. 76. New name for *Turbonella obeliscus* Gould, not *Chemnitzia obeliscus* C. B. Adams, 1850. See under *obeliscus, Turbonella.*

selenina, Helix: 1848, PBSNH, vol. 3, p. 38 (Georgia and Florida, J. Bartlett), diam. ½ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 240, pl. 29a, fig. 2; 1857, ibid., vol. 3, p. 34: ". . . is *Helix vortex* Pfeiffer 1839 *non* Linnaeus 1758 and *H. tenuistriata* A. Binney"; 1862, Otia Conch., p. 203. Probable figured holotype MCZ 169362 *ex* NYSM 269; original no. A 6460; paratype MCZ 169363 from same NYSM lot; 5 paratypes MCZ 17793 *ex* T. Bland coll. from Gould.

semiassa, Mangelia **Plate 20, fig. 4**
1860, PBSNH, vol. 7 p. 383 (hab.?), axis 8, diam. 3 mm.; 1862, Otia Conch., p. 137. Lectotype, here selected, USNM 24194, original no. 2028. NPEE.

seminifera, Pleurotoma [***Drillia***]: 1849, PBSNH, vol. 3, p. 140 (hab.?, Lt. Walker), long. 1⅜, lat. ⅜, in.; 1852, USEE, vol. 12, p. 248, pl. 18, fig. 312,a; 1862, Otia Conch., p. 63. Figured holotype USNM 5709.

seminula, Lucina [(***Myrtea***)] **Plate 28, fig. 3**
1861, PBSNH, vol. 8, p. 36 (Hong Kong harbor [China], common in 5–10 fathoms, shell sand, W. Stimpson); diam. 3 mm.; 1862, Otia Conch., p. 174. Probable holotype, here selected, lectotype USNM 553; 2 paratypes USNM 611842 from same lot; 2 paratypes MCZ 216812 *ex* Smithsonian Inst. (printed label). NPEE.

seminula, Marginella: 1860, PBSNH, vol. 7, p. 384 (from a gorgonian in False Bay, Cape of Good Hope, W. Stimpson), axis 4, diam. 3 mm.; 1862, Otia Conch., p. 139. NPEE.

semipicta, Cerithiopsis **Plate 10, fig. 1**
1861, PBSNH, vol. 7, p. 388 (China Seas), axis 2.5, diam. 1 mm.; 1862, Otia Conch., p. 143. Holotype USNM 24208, original no. 376, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 570, pl. 50, figs. 28, 29. NPEE.

semiserica, Succinea **Plate 43, fig. 1**
1846, PBSNH, vol. 2, p. 100 (Tavoy, in hortis, British Burmah [Burma], F. Mason), long. ½, lat. 3/10, alt. 3/20 in.; 1862, Otia Conch., p. 199. Probable measured holotype, here selected, lectotype MCZ 169364 *ex* NYSM 179, original no. G 2649; 8 paratypes MCZ 169365 and 2 paratypes USNM 611229 from same NYSM lot.

senticosa, Pinna: 1850, PBSNH, vol. 3, p. 312 (New Zealand), long. 4½, alt. 2½, lat. 1 in.; 1852, USEE, vol. 12, p. 448 [not figured]; 1862, Otia Conch., p. 93.

servilis, Pupa [***Modicella***]: 1843, PBSNH, vol. 1, p. 138; BJNH, vol. 4, p. 356, pl. 16, fig. 14 (Santa Cruz [Cuba], R. E. Griffiths; and near Matanzas [Cuba], J. Bartlett), length 1/10, breadth 1/20 in.; 1862, Otia Conch., p. 183: ". . . is *Pupa pellucida* Pfeiffer." 25 ideotypes MCZ 2169366 *ex* NYSM 209, original no. A 5791 labeled "St. Thomas, Virgin Islands."

setigera, Helix [***Pitys***]: 1844, PBSNH, vol. 1, p. 174 (Sandwich Islands); 1852, USEE, vol. 12, p. 55, pl. 4, fig. 52,a–c (east Maui [Hawaiian Islands], Drayton and Brackenridge), diam. ⅕, axis 1/10 in. . . .: [The figured specimens] "differ somewhat from those originally examined"; 1862, Otia Conch., pp. 194, 243. Figured neoholotype, selected by Gould, USNM 5453; 6 paratypes MCZ

169367 *ex* NYSM 278, original no. A 765; paratype MCZ 87861 *ex* BSNH 4197.

***severa, Natica* [*Lunatia*]** **Plate 16, fig. 14**
1859, PBSNH, vol. 7, p. 43 (Hakodadi [Hakodate] Bay [Japan], W. Stimpson), axis 1$\frac{6}{10}$, diam. 1$\frac{3}{10}$ in.; 1862, Otia Conch., p. 109. Measured holotype MCZ 169369 *ex* NYSM 37, original no. A 6302. NPEE.

***sicarius, Solen* [*Solecurtus*]:** 1850, PBSNH, vol. 3, p. 214 (Straits of [Juan] De Fuca, Oregon [Washington]), long. 3½, lat. $\frac{7}{20}$, alt. $\frac{5}{10}$ in.; 1852 USEE, vol. 12, p. 387, pl. 33, fig. 501,a–b (Townsend's Harbor and Straits of [Juan] de Fuca, Oregon [Washington]); 1862, Otia Conch., p. 74. Figured holotype USNM 11876.

siderea, Neritina: 1847, PBSNH, vol. 2, p. 238 (Feejees [Fijis]), diam. ¼ in.; 1852, USEE, vol. 12, p. 160, pl. 11, fig. 190,a (east end of Upolu, Samoa Islands); 1862, Otia Conch., p. 48. Figured holotype USNM 5590; 2 paratypes USNM 612322; 23 paratypes MCZ 169370 *ex* NYSM 115 and 118, original nos. A 3818 and A 4417; 3 paratypes MCZ 73471 *ex* Smithsonian Inst. (printed label).

silicula, Melania: 1847, PBSNH, vol. 2, p. 224 (Nisqually [near present site of Tacoma, Washington]), long. ½, lat. ⅜ in.; 1852, USEE, vol. 12, p. 141, pl. 10, fig. 164,a; 1862, Otia Conch., p. 46. 3 syntypes USNM 12137, largest might be figured specimen; syntypes original no. G 2583, listed as lost in 1875, 27th Ann. Rep. NYSM, p. 13.

simplex, Plicatula **Plate 25, fig. 4**
1861, PBSNH, vol. 8, p. 39 (common at Kagos[h]ima Bay and S[h]imoda [Japan], 5–20 fathoms, W. Stimpson), long. 15, lat. 8 mm.; 1862, Otia Conch., p, 178. Half lectotype, here selected, MCZ 169372, *ex* NYSM 377, original no. G 2921; paratype MCZ 169372 and paratype USNM 611205 from same NYSM lot. NPEE.

***simplex, Pupa* [*Vertigo*]:** 1940, BJNH, vol. 3, p. 403, pl. 3, fig. 21 (a small grove, a little northward of Fresh Pond, Cambridge [Massachusetts]), length $\frac{1}{15}$, breadth $\frac{1}{30}$ in.; 1841, Invert. Massachusetts, p. 190, fig. 121. Mentioned as being in Massachusetts State Cabinet 93 and BSNH 2398 but both specimens lost; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 543, pl. 72, fig. 3; 1862, Otia Conch., p. 183; 1870, Invert. Massachusetts, p. 444, fig. 706 [genus changed to *Vertigo*]. 3 syntypes MCZ 169371 *ex* NYSM 210, original A 6037.

simplex, Valvata tricarinata: 1841, Invert. Massachusetts, p. 226 (Vermont, Profs. Benedict and C. B. Adams), no measurements; 1870, Invert. Massachusetts, p. 287. Not found in C. B. Adams collection at MCZ.

sinensis, Streptaxis: 1859, PBSNH, vol. 6, p. 424 (Hong Kong [China]), axis 3/10, diam. 1/4 in.; 1862, Otia Conch., p. 103. NPEE.

sinuata, Monoptygma **Plate 4, fig. 7**

1861, PBSNH, vol. 7, p. 406 (China Seas, W. Stimpson), axis 18 [misprint for 8], diam. 4 mm.; 1862, Otia Conch., p. 150. Lectotype, here selected, MCZ 169374 *ex* NYSM 47, original no. G 2459, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 570, pl. 50, figs. 36, 37. NPEE.

sinuata, Physa: 1847, PBSNH, vol. 2, p. 214 (Feejee [Fiji] Islands, Drayton), long. 1/2, lat. 1/4 in.; 1852, USEE, vol. 12, p. 118, pl. 9, fig. 139,a–b; 1862, Otia Conch., p. 43. Figured holotype USNM 5539; 2 paratypes MCZ 169375 *ex* NYSM 305, original no. G 2538.

sirius, Turbo [***Stella***]: 1849, PBSNH, vol. 3, p. 90 (New Holland [Australia]), diam. 1/2, axis 3/10 in.; 1852, USEE, vol. 12, p. 173, pl. 12, fig. 203,a–d; 1862, Otia Conch., pp. 54, 245. Figured holotype USNM 5603.

Hedley, 1913, Proc. Linn. Soc. New S. Wales, vol. 38, p. 283, saw a type of this species in the British Mus. (Nat. Hist.) which he identified as *Australium tentoriforme* Jonas, 1845.

smaragdina, Doris: 1852, USEE, vol. 12, p. 296, pl. 21, fig. 390,a–c (Vincennes [or Kaueh] Paumoto [Tuamotu] Islands, J. P. Couthouy), long. 1 1/2, lat. 1/2 in.; 1862, Otia Conch., p. 227.

sobria, Arca [***Anomalocardia***]: 1850, PBSNH, vol. 3, p. 278 (hab.?), long. 3/4, alt. 3/10, lat. 7/10 in.; 1852, USEE, vol. 12, p. 423, pl. 40, fig. 560,a–b; 1862, Otia Conch., pp. 85, 246.

sodalis, Machaera **Plate 27, fig. 5**

1861, PBSNH, vol. 8, p. 26 (Hakodadi [Hakodate] Bay [Japan], W. Stimpson), long. 32, lat. 7, alt. 22 mm.; 1862, Otia Conch., p. 165. Lectotype, here selected, USNM 1639.

solidula, Liotia **Plate 5, fig. 15**

1859, PBSNH, vol. 7, p. 141 (dredged in 25 fathoms off the coast of China, W. Stimpson), axis 5, diam. 8 mm.; 1862, Otia Conch., p. 114. Specimen labeled "? Type" USNM 1295, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 565, pl. 50, figs. 24–25, almost agrees with the original measurements and is, here selected, lectotype, although the locality is given as "Kagosima, Japan"; paratype USNM 24224. NPEE.

soluta, Natica [***Lunatia***]: 1847, PBSNH, vol. 2, p. 239 (hab.?), diam. 1/2 in.; 1852, USEE, vol. 12, p. 215, pl. 15, fig. 257,a (probably from the austral coast of South America); 1862, Otia Conch., pp. 50, 244.

soluta, Odostomia: 1861, PBSNH, vol. 7, p. 405 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 4.5, diam. 1+ mm.; 1862, Otia Conch., p. 149, Type lot, USNM 989, not found. NPEE.

sordidulum, Cerithium: 1849, PBSNH, vol. 3, p. 119 (hab.?), long. 7/10, lat. ¼ in.; 1852, USEE, vol. 12, p. 145, pl. 10, fig. 170,a–b; 1862, Otia Conch., p. 61. Figured holotype USNM 5570; 2 paratypes MCZ 216580 *ex* Smithsonian Inst. (printed label); 2 paratypes Redpath Mus. 5136.

spatulata, Psammobia: 1861, PBSNH, vol. 8, p. 27 (taken off the coast of China, 23°30′ N. in sand, 25 fathoms, W. Stimpson), long. 28, alt. 15, lat. 4 mm.; 1862, Otia Conch., p. 165. Type lot, USNM 1808, not found. NPEE.

spiraculata, Doris: 1852, USEE, vol. 12, p. 300, pl. 23, fig. 395,a–b (Direction Island [Nanomea], Feejee [Fiji] Islands), long. 3½, lat. 1½, alt. ¾ in.; 1862, Otia Conch., p. 228.

spirillus, Helix: 1852, USEE, vol. 12, p. 38, pl. 3, fig. 45,a–c (mountains beyond the valley of Amançaes, near Lima [Peru], under stones, J. P. Couthouy), diam. ¼, axis 1/10 in.; 1862, Otia Conch., pp. 224, 243. Syntype MCZ 216826 *ex* Smithsonian Inst. (printed label). Not in USNM.

spirillus, Planorbis **Plate 44, fig. 7**

1859, PBSNH, vol. 7, p. 40 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), diam. ⅛, alt. 1/20 in.; 1862, Otia Conch., p. 106. Lectotype, here selected, USNM 1557, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, pl. 580, pl. 51, figs. 49, 52; 2 paratypes USNM 24217. NPEE.

splendens*, 'Gould' Carpenter, *Mytilus: 1864, Rep. British Assn. Adv. Sci. 1863, pp. 586, 587 [nomen nudum]. Carpenter suggested this might be the same as *Mytilus coruscus* Gould. See Palmer, 1950, Journ. de Conch., vol. 90, p. 193.

***sportella, Helix* [*Iberus*]:** 1846, PBSNH, vol. 2, p. 167 (Puget Sound, Oregon [Washington], Pickering), lat. ½, alt. 1/10 in; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 211, pl. 22a; 1852, USEE, vol. 12, p. 37, fig. 42; 1862, Otia Conch., pp. 18, 243. Measured holotype USNM 5442, original figures enlarged; paratype MCZ 169376 *ex* NYSM 260, original no. A 5373.

spreta, Olivella **Plate 4, fig. 6**

1860, PBSNH, vol. 7, p. 383 (Hong Kong Harbor [China], in 10 fathoms, shelly sand, W. Stimpson), axis 6, diam. 3 mm.; 1862, Otia Conch., p. 137. Measured holotype USNM 24169, original no. 516, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 574, pl. 51, figs. 47, 48. NPEE.

spurca, Nassa **Plate 16, fig. 7**

1860, PBSNH, vol. 7, p. 332 (St. Simon's Bay [Cape of Good Hope], in 12 fathoms, W. Stimpson), axis 10, diam. 6 mm.; 1862, Otia Conch., p. 129. Probable measured holotype, USNM 1661, though

labeled "Hakodadi, Japan"; 2 smaller paratypes USNM 24056; 4 paratypes MCZ 169381 *ex* NYSM 9; original no. G 2489. NPEE.

spurca, Succinea **Plate 43, fig. 8**

1850, PBSNH, vol. 3, p. 193 (Liberia, on the moist sides of water-pits, and in crevices of trees, G. A. Perkins), long. 3/10, lat. 2/10 in.; 1862, Otia Conch., p. 206. Lectotype, here selected, MCZ 169377 *ex* NYSM 180, original no. G 2650; 14 paratypes MCZ 169378 and 3 paratypes USNM 611248 from same NYSM lot.

***spurcus, Trochus* [*Gibbula*]:** 1849, PBSNH, vol. 3, p. 106 (Madeira Islands, J. P. Couthouy), diam. 3/8, alt. 3/10 in.; 1852, USEE, vol. 12, p. 188, pl. 13, fig. 219,a–c; 1862, Otia Conch., p. 58. Figured holotype USNM 5619.

spuria, Monilea: 1861, PBSNH, vol. 8, p. 17 (Simon's Bay [Cape of Good Hope], low water mark, under stones, W. Stimpson), diam. 5, axis 4 mm.; 1862, Otia Conch., p. 155. Lectotype, here selected, USNM 24269 a, figured by Bartsch, 1915, USNM Bull. 91, p. 146, pl. 22, figs. 4–6; lot also contains two smaller paratypes; paratypes in NYSM mentioned as lost, 1875, 27th Ann. Rep. NYSM, p. 49. NPEE.

squarrosa, Helix: 1859, PBSNH, vol. 6, p. 423 (Ousima [Amami-O-shima, Ryukyu Islands], among stones on hillsides, W. Stimpson), diam. 6/10, axis 3/10 in., probably immature; 1862, Otia Conch., p. 102. NPEE.

***stellula, Helix* [*Pitys*]** **Plate 38, fig. 3**

1844, PBSNH, vol. 1, p. 174 (Sandwich [Hawaiian] Islands; also found by USEE); 1852, USEE, vol. 12, p. 56, pl. 4, fig. 52+,a–c (Maui, Sandwich [Hawaiian] Islands), diam. 1/8, axis 1/12 in. Only 3 or 4 specimens found; 1862, Otia Conch., pp. 194, 243. Lectotype, here selected, MCZ 169383 *ex* NYSM 242, original no. A 768.

sterna, Avicula: 1851, PBSNH, vol. 4, p. 93 (Mazatlan? [Mexico], T. P. Green), hinge margin 2½, diam. of wing 1¼, breadth 5/8 in.; 1853, BJNH, vol. 6, p. 404, pl. 16, fig. 7 (also Panama, C. B. Adams, E. Jewett); 1862, Otia Conch., p. 214. Figured holotype MCZ 169380 *ex* NYSM 370, original no. A 2490 *ex* T. P. Green; paratype MCZ 216831 *ex* C. B. Adams coll.

stigmosum, Cerithium: 1861 PBSNH, vol. 7, p. 386 (Bonin Islands, W. Stimpson), axis 7, diam. 2+ mm.; 1862, Otia Conch., p. 141. NPEE.

***stimpsoni, Buccinum* [*Neptunea*]** **Plate 11, fig. 1**

1860, PBSNH, vol. 7, p. 325 (Arikamcheche [Arakamchechen] Island, Behring's [Bering] Straits, W. Stimpson; dredged in Arctic Ocean, Capt. Rodgers), long. 100, diam. 45 mm.; 1862, Otia Conch., p. 122. Figured by Dall, 1925, Proc. USNM, vol. 66, p. 6, pl. 7, fig. 2, but

the specimen figured, USNM 225469, is not a type. Holotype MCZ 169454 *ex* NYSM 6, original nos. A 6306, 1781, labeled "Arctic Ocean."

***stimpsoni, Chiton* (*Molpalia*):** 1859, PBSNH, vol. 7, p. 165 (Hakodadi [Hakodate] Bay [Japan], 25 fathoms, W. Stimpson), long. 1.5, lat. 1 in.; 1862, Otia Conch., p. 118. Holotype USNM 1646, figured by Pilsbry, 1892, Manual of Conchology, ser. 1, vol. 14, p. 308, pl. 62, figs. 84, 85, 88. NPEE.

***stimpsoni, Venus* (*Mercenaria*)** **Plate 25, fig. 6**
1861, PBSNH, vol. 8, p. 30 (Hakodadi [Hakodate, Japan], 6 fathoms, W. Stimpson), long. 3.7, alt. 3.3, lat. 1.7 in.; 1862, Otia Conch., p. 169. Half measured holotype USNM 1592. NPEE.

***striatula, Achatinella* [*Leptachatina*]:** 1845, PBSNH, vol. 2, p. 28 (Sandwich [Hawaiian] Islands), long. 7/20, lat. 3/20 in.; 1862, Otia Conch., p. 196: ". . . is *A. clara* Pfeiffer (1860)." 20 syntypes MCZ 169386 *ex* NYSM 193, original A 1171.

"The bottle [in NYSM] in which are the types of this species, contains a varied assortment of different species" Cooke, 1911, *in* Pilsbry, Manual of Conchology, ser. 2, vol. 21, p. 75.

strictus, Omphalotropis: 1859, PBSNH, vol. 7, p. 40 (on old stone walls, Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 1/5, diam. 1/8 in.; 1862, Otia Conch., p. 105. NPEE.

strictus, Solen: 1861, PBSNH, vol. 8, p. 26 (Hakodadi [Hakodate] Bay [Japan], W. Stimpson), long. 4.5, alt. .7, lat. .5 in.; 1862, Otia Conch., p. 165. NPEE.

***strigatum, Cyclostoma* [*Ostodes*]:** 1847, PBSNH, vol. 2, p. 204 (Upolu [Samoan Islands], J. P. Couthouy), lat. 7/20, alt. 3/10 in.; 1852, USEE, vol. 12, p. 102, pl. 8, fig. 117,a–b; 1856, ibid., Addenda and Corrigenda, p. 502; 1862, Otia Conch., pp. 38, 244. Measured holotype USNM 5518, figure is enlarged; paratype USNM 612302; 11 paratypes MCZ 169387 *ex* NYSM 319, original no. G 2623; 2 paratypes MCZ 87876 *ex* BSNH 3973 from J. P. Couthouy; 3 paratypes MCZ 124904 *ex* Smithsonian Inst. (printed label).

strigatum, Dentalium: 1859, PBSNH, vol. 7, p. 166 (False Bay, Cape of Good Hope, W. Stimpson), long. 18, diam. 3 mm.; 1862, Otia Conch., p. 119. Lectotype, here selected, USNM 159, figured by Pilsbry, 1897, Manual of Conchology, ser. 1, vol. 17, p. 14, pl. 5, figs. 69, 70, and by Bartsch, 1915, USNM Bull. 91, p. 180, pl. 44, fig, 5; 2 paratypes MCZ 169382 *ex* NYSM 150, original no. G 2410.

strigillata, Rissoina: 1861, PBSNH, vol. 7, p. 401 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 5, diam. 2.2 mm.; 1862, Otia Conch., p. 145. NPEE.

***strigosa, Helix* [*Iberus*]:** 1846, PBSNH, vol. 2, p. 166 (interior of Oregon [Washington]), lat. 9/10, alt. 7/8 in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 210, pl. 26a; 1852, USEE, vol. 12, p. 36, pl. 3, fig. 41,a–b (along Puget Sound [Washington], Pickering; Columbia River [Oregon], Drayton); 1862, Otia Conch., pp. 18, 243. Figured holotype USNM 5441.

strigosus, Buccinulus **Plate 20, fig. 1**
1859, PBSNH, vol. 7, p. 141 (Loo Choo [Okinawa, Ryukyu Islands] and Kagos[h]ima [Japan], W. Stimpson), axis 8, diam. 3 mm.; 1862, Otia Conch., p. 114. Lectotype, here selected, USNM 1311; 3 paratypes USNM 612300; paratype MCZ 216576 *ex* Smithsonian Inst. (printed label). NPEE.

strigosus, Solecurtus: 1861, PBSNH, vol. 8, p. 26 (Whampoa Island [near Hong Kong, China], W. Stimpson), long. 50, alt. 7, lat. 7 mm.; 1862, Otia Conch., p. 164, NPEE.

***Stylocheilus*, new genus:** 1852, USEE, vol. 12, p. 224; 1862, Otia Conch., p. 227. Type species, by subsequent designation: *Stylocheilus lineolatus* Gould, Kobelt, 1879, Illustrirtes Conchylienbuch, vol. 2, p. 177.

***sublutus, Fusus* [*Bela*]:** 1849, PBSNH, vol. 3, p. 142 (hab.?), long. 3/5, lat, 1/4 in.; 1852, USEE, vol, 12, p. 235, pl. 16, fig. 286,a–b; 1862, Otia Conch., pp. 65, 245. Figured holotype USNM 5684.

subplanata, Odostomia **Plate 9, fig. 6**
1861, PBSNH, vol. 7, p. 404 (Hong Kong [China], W. Stimpson), axis 2.7, diam. 1 mm.; 1862, Otia Conch., p. 148. Probable measured holotype, here selected, lectotype USNM 2099 labeled "? Type." NPEE.

subradiatus, Cryptodon: 1861, PBSNH, vol. 8, p. 35 (St. Simon's Bay [Cape of Good Hope], W. Stimpson), long. 3.75, alt. 3, lat. 2 mm., only one valve found; 1862, Otia Conch., p. 173. Measured holotype USNM 24223, original no. 147, figured by Bartsch, 1915, USNM Bull. 91, p. 197, pl. 46, figs. 5, 6. NPEE.

***subtilissima, Helix* [*Zonites*]:** 1846, PBSNH, vol. 2, p. 177 (Maui, Sandwich [Hawaiian] Islands, Drayton), lat. 1/8, alt. 1/16 in.; 1852, USEE, vol. 12, p. 48, pl. 5, fig. 62,a–c; 1862, Otia Conch., p. 24. Lectotype USNM 5464 selected by H. B. Baker, 1941, Bull. B. P. Bishop Mus. no. 166, p. 216; 4 ideotypes MCZ 169385 *ex* NYSM 239, original no. A 5876; ideotype MCZ 169384 *ex* NYSM 275, original no. A 5881.

subula, Syronola **Plate 15, fig. 6**
1861, PBSNH, vol. 7, p. 403 (China Seas, W. Stimpson), axis 4, diam. 1 mm.; 1862, Otia Conch., p. 148. Lectotype, here selected, USNM 563. NPEE.

sufflata, Nassa: 1860, PBSNH, vol. 7, p. 330 (Hong Kong [China], Kagos[h]ima [Japan], W. Stimpson), long. 22, diam. 12 mm.; 1862, Otia Conch., p. 127. NPEE.

sufflatus* 'Gould' Binney, *Bulimus: New name for *Bulimus vesicalis* Gould, not Pfeiffer 1853. See under *vesicalis, Bulimus.*

sulcata, Astarte: 1841, Invert. Massachusetts, p. 119, not Da Costa 1778. See under *undata, Astarte.*

sulculata* 'Couthouy' Gould, *Nucula: 1852, USEE, vol. 12, p. 424, pl. 37, fig. 539,a–c (dredged in Orange Bay [located on west side of Bahía Nassau, Tierra del Fuego]), length ½, breadth ⅛, height $^{3}/_{10}$ in.; not in 1862, Otia Conch. Half figured holotype USNM 5924.

***sumptuosa, Doris* [*Hexabranchus*]:** 1852, USEE, vol. 12, p. 303, pl. 24, fig. 398,a (Tonga Islands), long. 10½, lat. 8½ in.; 1862, Otia Conch., p. 229.

***superba, Doris* [*Hexabranchus*]:** 1852, USEE, vol. 12, p. 301, pl. 23, fig. 396,a–c (Fangasai Bay, Tutuilla, Samoa Islands), long. 5½, lat. 4 in.; 1862, Otia Conch., p. 228.

superba, Rotella: 1861, PBSNH, vol. 8, p. 17 (found dead on the shore, Kagos[h]ima Bay [Japan], W. Stimpson), axis 15, diam. 20 mm.; 1862, Otia Conch., p. 159. Type lot, USNM 1276, not found. NPEE.

superbus, Vaginulus: 1852, USEE, vol. 12, p. 6, pl. 1, fig. 5,a–b (an orange tree near a mountain torrent in the vicinity of Tijuca near Rio [de] Janeiro [Brazil], Couthouy and Pickering), length 7 in.; not in 1862, Otia Conch.

suppositus, Trophon: 1860, PBSNH, vol. 7, p. 329 (hab.?), apert. ovata ⅝ longit, axis 30, diam. 15, aperturae long. 20 mm.; 1862, Otia Conch., p. 126. NPEE.

suturalis, Dunkeria: 1862, PBSNH, vol. 8, p. 280 (Fort Johnson [eastern point of James Island], Charleston Harbor, South Carolina), long. 3, lat. 1 mm.; 1862, Otia Conch., p. 237.

tabulata, Physa: 1847, PBSNH, vol. 2, p. 214 (New Zealand), long. $^{7}/_{10}$, lat. $^{4}/_{10}$ in.; 1852, USEE, vol. 12, p. 116, pl. 8, fig. 136,a–b (mountain stream, Bay of Islands [county], New Zealand, Drayton); 1862, Otia Conch., pp. 42, 244. Figured holotype USNM 5536; paratype USNM 612309; paratype USNM 20714; 3 paratypes MCZ 169394 *ex* NYSM 308, original no. G 2539.

talcosa, Helix **Plate 37, fig. 5**

1850, PBSNH, vol. 3, p. 194 (Cape Palmas [Liberia], on bark of trees in forests, G. A. Perkins), diam. ⅜, axis ⅜ in.; 1862, Otia Conch., p. 207. Lectotype, here selected, MCZ 147678 *ex* Essex Inst., Salem, Massachusetts from G. A. Perkins; 6 paratypes MCZ 225213 from same lot.

talcosa, Patella: 1846, PBSNH, vol. 2, p. 148 (Hawaii, Sandwich [Hawaiian] Islands), long. 4, lat. 3½, alt. 1¾ in.; 1852, USEE, vol. 12, p. 334, pl. 29, fig. 452,a–b; 1862 Otia Conch., pp. 6, 242. Figured holotype USNM 5824.

tantilla, Persicula **Plate 9, fig. 8**

1860, PBSNH, vol. 7, p. 383 (China Seas, W. Stimpson), axis 3, lat. 1.5 mm.; 1862, Otia Conch., p. 139. Lectotype, here selected, USNM 24258, original no. 445, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 574, pl. 51, figs. 60, 61. NPEE.

tantilla, Pupa [(***Vertigo***)]**:** 1847, PBSNH, vol. 2, p. 197 (Taheiti [Tahiti, Society Islands], 2000 ft. elevation, J. P. Couthouy), long. 1/15, lat. 1/20 in.; 1852, USEE, vol. 12, p. 92, pl. 7, fig. 103,a–b; 1862, Otia Conch., pp. 33, 244. Figured holotype USNM 5505; paratype MCZ 86025 *ex* Smithsonian Inst. (printed label).

tantillus, Paxillus: 1859, PBSNH, vol. 7, p. 138 (Hong Kong [China], W. Stimpson), axis 1.25, diam .75 mm.; 1862, Otia Conch., p. 110. NPEE.

tantillus, Trochus [***Gibbula***]**:** 1849, PBSNH, vol. 3, p. 118 (Sandwich [Hawaiian] Islands), axis 1/12, diam. 1/8 in.; 1862, USEE, vol. 12, p. 184, pl. 13, fig. 215; 1856, ibid., Addenda and Corrigenda, p. 503; 1862 Otia Conch., pp. 59, 245. Figured holotype USNM 5615; 34 paratypes MCZ 169392 *ex* NYSM 127, original no. A 2905; 8 paratypes Redpath Mus. 3579.

tantillus, Venus [***Trigona***]**:** 1853, BJNH, vol. 6, p. 406, pl. 15, fig. 10 (Santa Barbara [California], E. Jewett), long. ¼, alt. 1/8 in.; 1862, Otia Conch., p. 188. Half figured holotype MCZ 169391 *ex* NYSM 358, original no. A 4612.

tavoyensis, Unio **Plate 32, fig. 4**

1843, PBSNH, vol. 1, p. 140 ([Tavoy,] British Burmah [Burma], F. Mason), long. 2, alt. 1½, lat. 5/8 in.; 1862, Otia Conch., p. 190. Measured holotype MCZ 169389 *ex* NYSM 58, original no. A 5711; 4½ paratypes USNM 84071 *ex* I. Lea coll. from Gould; paratype MCZ 219285 *ex* USNM 84071; 10 ideotypes MCZ 169390 *ex* NYSM 58, original no. A 5713 labeled "Ko-chet-thingsville, Salwan River, Tavoy, Mrs. Vinton."

tenella* 'Agassiz' Gould, *Doris: 1870, Invert. Massachusetts, p. 229, pl. 20, figs. 289, 290, 293 (Beverly [Massachusetts], February 1848, L. Agassiz), length ½, breadth 3/8 in.

tenella, Psammobia **Plate 24, fig. 1**

1861, PBSNH, vol. 8, p. 27 (Hong Kong Harbor [China], in 8 fathoms, W. Stimpson), long. 12, alt. 6, lat. 3 mm.; 1862, Otia Conch., p. 166. Measured holotype USNM 518. NPEE.

tenella, Vitrina: 1846, PBSNH, vol. 2, p. 181 (Kauai, Sandwich [Hawaiian] Islands, J. P. Couthouy), diam. ⅛, alt. 1/11 in.; 1852, USEE, vol. 12, p. 11, pl. 1, fig. 10,a–c; 1862, Otia Conch., p. 26. Figured holotype USNM 20874.

tenellum, Pisidium: 1850, *in* Agassiz, Lake Superior, p. 245 (Fort William, Michipicoten, Ontario). In comparison to *Pisidium dubium* Say, Gould says: "They are smaller, more elevated, less sulcated, and the hinge is less robust. I had designed to apply to them the specific name *P. tenellum*, but unfortunately the specimens were mislaid before I could examine them with sufficient care to give the characters with the requisite precision." Ideotype MCZ 19828 *ex* T. Prime coll.

tenerrima* Carpenter, *Tapes: 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 200. See Palmer, 1958, Geol. Soc. Amer. Mem., no. 76, p. 97.

tentoriolum, Helix: 1846, PBSNH, vol. 2, p. 176 (Upolu, Samoa Islands, J. P. Couthouy), lat. ⅖, alt. 3/10 in.; 1852, USEE, vol. 12, p. 63, pl. 4, fig. 54; 1862, Otia Conch., p. 23.

The only type known of this species is a specimen in the Acad. Nat. Sci. Philadelphia, no. 1935, marked "S" [Samoa], A. D. Brown coll. It is slightly smaller than Gould's measurements, and was figured by H. B. Baker, 1938, Bull. P. B. Bishop Mus., no. 166, pt. 1, pl. 34, fig. 5; ibid., 1941, pt. 3, p. 313.

tenuicula, Chemnitzia: 1853, BJNH, vol. 6, p. 383, pl. 14, fig. 15 (Santa Barbara [California], E. Jewett), axis 3/10, diam. 1/20 in.; 1862, Otia Conch., p. 186. Figured holotype MCZ 169393 *ex* NYSM 42, original no. A 3112; paratype USNM 16267a *ex* E. Jewett, figured by Dall and Bartsch, 1909, USNM Bull. 68, p. 93, pl. 8, figs. 7, 7a.

***terebrale, Cyclostoma* [*Omphalotropis*]:** 1847, PBSNH, vol. 2, p. 206 (Taheiti [Tahiti] and Eimeo [Moorea, Society Islands], at an elevation of 3500 ft., J. P. Couthouy), lat. 1/10, alt. ¼ in.; 1852, USEE, vol. 12, p. 106, pl. 8, fig. 120,a–b; 1862, Otia Conch., pp. 39, 244. Figured holotype USNM 5521; 2 paratypes MCZ 169394 *ex* NYSM 333, original no. G 2633; 2 paratypes MCZ 216600 *ex* Smithsonian Inst. (printed label).

***terebralis, Neptunea* [(*Sipho*)]:** 1860, PBSNH, vol. 7, p. 326 (Arctic Ocean), axis 60, diam. 25 mm.; 1862, Otia Conch., p. 123. NPEE.

Gould says: "Specimen from Spitzbergen, in good condition, in Mr. Cuming's collection, from which I have taken the character of the lip." Mr. Peter Dance was unable to locate this specimen in 1960 at the British Museum (Nat. Hist.).

***terpsichore, Melania* [*Plotia*]** **Plate 35, fig. 5**

1847, PBSNH, vol. 2, p. 222 (Feejee [Fiji] and Samoa[n] Islands), long. 1, lat. ⅜ in.; 1852, USEE, vol. 12, p. 134, pl. 9, fig. 155,a–b; 1862, Otia Conch., pp. 44, 244. Lectotype, here selected, MCZ 169397 *ex* NYSM 69, original no. G 2631 from Feejee [Fiji] Islands; 3 paratypes MZ 169398 and paratype USNM 611210 from same NYSM lot; 4 paratypes MCZ 87931 *ex* BSNH 3050.

tersa, Tellina: 1853, BJNH, vol. 6, p. 398, pl. 16, fig. 2 (Panama, E. Jewett), long. 1, vert. ⅞ trans. ¾ in.; 1862, Otia Conch., p. 188.

tessellata, Atlanta: 1852, USEE, vol. 12, p. 494, pl. 51, fig. 600,a–b (from the stomach of a Bonito, taken in latitude 3° S., long. 20° W.), diam. max. ¼, diam. transv. ½ in.; 1862, Otia Conch., p. 236.

tetragona, Mangelia **Plate 21, fig. 9**

1860, PBSNH, vol. 7, p. 382 (China Seas, W. Stimpson), axis 6, diam. 2 mm.; 1862, Otia Conch., p. 137. Lectotype, here selected, USNM 24197, original no. 375, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 576, pl. 51, figs. 8, 9, though labeled "? type." NPEE.

tetrica, Lima: 1851, PBSNH, vol. 4, p. 93 (Gulf of California at La Paz [Lower California], W. Rich), long. 1½, alt. ⅛, lat. ½ in.; 1853, BJNH, vol. 6, p. 405, pl. 16, fig. 6; 1862, Otia Conch., p. 214. Possible figured holotype USNM 2374 *ex* W. Rich coll.; 4 paratypes USNM 612326.

***tetrica, Melania* [*Plotia*]:** 1847, PBSNH, vol. 2, p. 222 (Feejee [Fiji] Islands), long. 1¼, alt. ⅝ in.; 1852, USEE, vol. 12, p. 133, pl. 9, fig. 153,a–b; 1862, Otia Conch., pp. 44, 244. Type lot, USNM 5553, original no. 153, not found.

tetricus, Octopus: 1852, USEE, vol. 12, p. 474, pl. 47, fig. 588,a–c (near Sydney, New South Wales [Australia]), length of sac 2.5, upper arm 12, superior lateral 16, inferior lateral 16, inferior 13, breadth of umbel 5, of arm 2–3, diam. of largest cupules ½ in.; 1862, Otia Conch., p. 232.

***textilis, Emarginula* [*Clypodina*]** **Plate 18, fig. 6**

1859, PBSNH, vol. 7, p. 163 (Ousima [Amami-O-shima, Ryukyu Islands], on surf-washed rocks, W. Stimpson), long. 9, lat. 7, alt. 4 mm.; 1862, Otia Conch., p. 116. Measured holotype USNM 24112; paratype MCZ 169395 *ex* NYSM 152, original no. G 2442. NPEE.

***textilis, Patella* (*Lottia?*) [*Tectura*]:** 1846, PBSNH, vol. 2, p. 152 (Straits of [Juan] de Fuca [Washington], and Killimook [Tillamook, Oregon], C. Pickering and J. Drayton), long. 1, lat. ¾, alt. ⅞ in.; 1852, USEE, vol. 12, p. 349, pl. 50, fig. 457; 1862, Otia Conch., pp. 10, 243: " . . . is a variety of *Tectura persona* Eschenholtz." 2 syntypes MCZ 169396 *ex* NYSM 157, original no. A 6517.

texturata, Scalaria: 1847, PBSNH, vol. 2, p. 252 (hab.?), lat. ⅛, alt. ⅓ in.; 1852, USEE, vol. 12, p. 206, pl. 14, fig. 244,a–b; 1862, Otia Conch., p. 99. Probable figured holotype USNM 5643, consists of bottom half of shell only, rest broken off; the lot also includes a smaller paratype.

texturatus, Trochus [***Cantharis***]**:** 1849, PBSNH, vol. 3, p. 90 (New Zealand), alt. 1, lat. 7/10 in.; 1852, USEE, vol. 12, p. 181, pl. 12, fig. 206,a–b; 1862, Otia Conch. pp. 55, 245. 9 syntypes USNM 16518; 2 syntypes MCZ 216786 *ex* Smithsonian Inst. (printed label).

thoracica, Scintilla: 1861, PBSNH, vol. 8, p. 35 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), long. 13, alt. 8, lat. 4 mm.; 1862, Otia Conch., p. 174. NPEE.

thoracites, Teredo [***Calobates***]**:** 1856, PBSNH, vol. 6, p. 15 (Tavoy [Burma], F. Mason and J. Benjamin), length and height ½, breadth ⅜ in.; 1862, Otia Conch., pp. 222, 241. Type lot, original no. G 2534 listed as lost in 1875, 27th Ann. Rep. NYSM, p. 13.

tiara, Cyclostoma [***Ostodes***]**:** 1847, PBSNH, vol. 2, p. 204 (Upolu [Samoan Islands], J. P. Couthouy), lat. ¾, alt. ½ in.; 1852, USEE, vol. 12, p. 101, pl. 8, fig. 116,a; 1862, Otia Conch., pp. 37, 244. Measured holotype USNM 5517, figure slightly enlarged.

tinctus, Donax [***Latona***]**:** 1850, PBSNH, vol. 3, p. 255 (hab.?), long. 17/20, alt. 7/10, lat. ⅝ in.; 1852, USEE, vol. 12, p. 411, pl. 36, fig. 521,a; 1862, Otia Conch., pp. 81, 246: " . . . inhabits Mergui Archipelago." 2 syntypes MCZ 216808 *ex* Smithsonian Inst. (printed label); 7 ideotypes MCZ 169399 and ideotype USNM 611206 *ex* NYSM 352, original no. A 961. Most specimens larger than the original measurements labeled "Mergui."

tithonia, Tellina [***Tellinella***]**:** 1850, PBSNH, vol. 3, p. 252 (Soo Loo [Sulu] Sea), long. 1¾, alt. ⅞ in.; 1852, USEE, vol. 12, p. 405, pl. 35, fig. 518,a–b; 1862, Otia Conch., pp. 79, 246. Figured holotype USNM 5905.

togata, Limax: 1841, Invert. Massachusetts, p. 3 ([Massachusetts]); 1862, Otia Conch., p. 182: " . . . is *Tebennophorus carolinensis* Binney."

toreuma, Venus: 1850, PBSNH, vol. 3, p. 277 (Mangsi Island [Strait of Balabac]), long. 1⅜, alt. 1¼, lat. 9/10 in.; 1852, USEE, vol. 12, p. 419, pl. 37, fig. 537,a; 1856, ibid., Addenda and Corrigenda, p. 508; 1862, Otia Conch., pp. 84, 246.

tornatilis, Fossar[***us***] **Plate 5, fig. 3**

1859, PBSNH, vol. 7, p. 44 (Hong Kong harbor [China], 10 fathoms, W. Stimpson), axis 5, diam. 4 mm.; 1862, Otia Conch., p. 110. Holotype USNM 560, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 571, pl. 51, figs. 1, 2. NPEE.

tornatilis, Rissoina **Plate 14, fig. 5**

1861, PBSNH, vol. 7, p. 401 (Loo Choo [Okinawa, Ryukyu Islands], W. Stimpson), axis 5.5, diam. 2 mm.; 1862, Otia Conch., p. 146. Lectotype, here selected, USNM 1036, labeled "? Type." NPEE.

tornatus, Fusus [***Neptunea***] **Plate 6, fig. 3**

1839, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 197 ([Grand] Bank[s] Fisheries [off Nova Scotia], Col. Totten), long. 2¾, lat. 2 in.; 1841, Invert. Massachusetts, p. 286, fig. 201. Mentioned as being in Massachusetts State Cabinet 13 [specimen lost] and BSNH 2376; 1862, Otia Conch., p. 180; 1870, Invert. Massachusetts, p. 374, fig. 201. Lectotype, here selected, MCZ 216594 *ex* BSNH 2376.

torquata, Chemnitzia: 1853, BJNH, vol. 6, p. 384, pl. 14, fig. 16 (Santa Barbara [California], E. Jewett), length ⅛, breadth ½₀ in.; 1862, Otia Conch., p. 186. Figured holotype MCZ 169400 *ex* NYSM 41, original no. A 3114.

torrida, Achatina **Plate 42, fig. 3**

1843, PBSNH, vol. 1, p. 158 (Cape Palmas, Liberia [ibid., p. 153], Africa, Drs. Savage and Perkins), long. 3½, lat. 1½ in.; 1862, Otia Conch., p. 192. Measured holotype MCZ 169446 *ex* NYSM 189, original no. A 1107; 9 probable paratypes MCZ 39634 *ex* BSNH.

torva, Perna: 1850, PBSNH, vol. 3, p. 311 (Sandwich [Hawaiian] Islands), long. 1½, alt. 1¾, lat. ⅜ in.; 1852, USEE, vol. 12, p. 445, pl. 40, fig. 558,a–b; 1862, Otia Conch., p. 92. Figured holotype USNM 5943, fig. 558 (exterior valve); half paratype USNM 612321.

trachealis, Chemnitzia: 1861, PBSNH, vol. 7, p. 407 (Simon's Bay [Cape of Good Hope], W. Stimpson), axis 5.7, diam. 1.7 mm.; 1862, Otia Conch., p. 151. Holotype USNM 165 *a*, figured by Bartsch, 1915, USNM Bull. 91, p. 82, pl. 17, fig. 1. NPEE.

trochlea, Helicina: 1847, PBSNH, vol. 2, p. 202 (Matea [Makatea Island], Paumoto [Tuamotu] Islands, under stones, J. P. Couthouy), lat. ⅛, alt. ¾₀ in.; 1852, USEE, vol. 12, p. 99, pl. 7, fig. 109,a–c; 1862, Otia Conch., p. 36. 2 syntypes USNM 5511; 7 syntypes MCZ 169401 *ex* NYSM 295, original no. A 1817; syntype MCZ 216579 *ex* Smithsonian Inst. (printed label).

trochlearis, Rissoina **Plate 15, fig. 1**

1861, PBSNH, vol. 7, p. 400 (China Seas, W. Stimpson), axis .16, diam. .073 in.; 1862, Otia Conch., p. 144. Lectotype, here selected, USNM 661, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 567, pl. 50, figs. 38, 39. The figured type is much larger than the original measurements, which appear to be typographical errors.

troilus, Helix (***Caracolla***) [***Trochomorpha***]**:** 1846, PBSNH, vol. 2, p. 176 (Samoa Islands, J. P. Couthouy), lat. ¾, alt. ⅗₀ in.; 1852,

USEE, vol. 12, p. 58, pl. 4, fig. 55,a–c; 1856, ibid., Addenda and Corrigenda, p. 501; 1862, Otia Conch., pp. 23, 243.

Var. a (Upolu [Samoan Islands]), lat. 5/10, alt. 7/20 in.; fig. 55c. Figured type is either MCZ 169405 *ex* NYSM 247, original no. A 734, or USNM 5457.

Var. b (Upolu [Samoan Islands]), lat. 3/4, alt. 3/10 in.; fig. 55b. Figured type is MCZ 169404 from same NYSM lot.

Var. c (Eimeo [Moorea, Society Islands]; Upolu [Samoan Islands]), lat. 7/10, alt. 1/4 in. Probable measured type is MCZ 169406 from same NYSM lot.

Var. d (Tongataboo [Tonga Islands]), lat. 13/20, alt. 11/40 in. Probable measured type is MCZ 169407 from same NYSM lot.

Var. e (Tutuila and Eimeo [Moorea, Society Islands]), lat. 13/20, alt. 3/10 in.; figs. 55, 55a. Figured type in 55a is MCZ 169403 from same NYSM lot.

Syntype MCZ 87867 *ex* BSNH from J. P. Couthouy; 4 syntypes MCZ 156386 *ex* Smithsonian Inst. (printed label).

trossulus, Mytilus: 1850, PBSNH, vol. 3, p. 344 (Killimook [Tillamook], Oregon; Puget Sound [Washington]), long. 1¼, alt. 1⅜, lat. ½ in.; 1852, USEE, vol. 12, p. 450, pl. 41, fig. 567,a; 1862, Otia Conch., p. 94.

trumbulli* 'Linsley' Gould, *Fusus: 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 235, fig. 7 (Connecticut), long. 3/5, lat. 1/10 in.

trumbulli* 'Linsley' Gould, *Helix: 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 235 [nomen nudum]: . . . is *Skenea serpuloides* teste Gould.

truncata, Cryptomya: 1861, PBSNH, vol. 8, p. 24 (China Sea, lat. 24° N., W. Stimpson), long. 18, alt. 13, lat. 10 mm.; 1862, Otia Conch., p. 163. Only one valve examined. NPEE.

truncata* 'Linsley' Gould, *Cyclas: 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 234, fig. 3 (Connecticut), long. ⅛, lat. ⅛, alt. ¼ in.

tubulosa, Cylinchna: 1859, PBSNH, vol. 7, p. 140 (Simon's Bay, Cape of Good Hope, W. Stimpson), axis 8, diam. vix 3 mm.; 1862, Otia Conch., p. 113. Holotype USNM 164, figured by Bartsch, 1915, USNM Bull. 91, p. 5, pl. 3, fig. 5. NPEE.

tumida, Stomatella: 1843, PBSNH, vol. 3, p. 74 (China Seas, Moluccas), long. 1⅛, lat. ¾, alt. ⅞ in.; 1852, USEE, vol. 12, p. 209, pl. 15, fig. 249,a–b (purchased at Singapore by Mr. Rich; it is known to be native at the Molucca Islands); 1862, Otia Conch., p. 51. Figured holotype MCZ 169409 *ex* NYSM 143, original no. G 2214; paratype MCZ 169410 and paratype USNM 611203 from same NYSM lot.

***tumulus, Helix* [*Irus*]** **Plate 38, fig. 1**

1846, PBSNH, vol. 2, p. 176, (Feejee [Fiji] Islands, Drayton), long. ⅝, alt. 7/20 in.; 1852, USEE, vol. 12, p. 62, pl. 4, fig. 53,a–b; 1862, Otia Conch., p. 22. Lectotype, here selected, MCZ 169408 *ex* NYSM 284 original no. A 772; paratype USNM 611213 from same NYSM lot.

H. B. Baker, 1941, Bull. P. B. Bishop Mus., no. 166, pt. 3, p. 300, says, " . . . probably the smaller one is the type." This is the specimen selected above.

tunicata, Limax: 1841, Invert. Massachusetts, p. 3 ([Massachusetts]); 1862, Otia Conch., p. 182: ". . . is *Limax agrestis* Muller."

turbinea, Nassa: 1845, PBSNH, vol. 2, p. 37 (Liberia, C. J. Bates), long. 9/10, lat. ½ in.; 1845, BJNH, vol. 5, p. 292, pl. 24, fig. 10; 1862, Otia Conch., p. 197.

turgida, Bela: 1860, PBSNH, vol. 7, p. 337 (Kamtschatka [Kamchatka, Siberia], W. Stimpson), axis 10, diam. 5 mm.; 1862, Otia Conch., p. 134. NPEE.

turgida, Nucula: 1846, PBSNH, vol. 2, p. 100 (Tavoy, British Burmah [Burma], F. Mason), long. ½, lat ¼, alt. 7/20 in.; 1862, Otia Conch., p. 199.

turnix, Bulimus: 1846, PBSNH, vol. 2, p. 101 (Organ Mountains, Brazil, Mrs. A. H. Everett), long. 2⅕, alt. 11/10 x 9/10, apert. 1⅘ in.; 1862, Otia Conch., p. 199: "Hab. Brazil?"

uberta, Helicina: 1847, PBSNH, vol. 2, p. 202 (Maui and Oahu Mountains [Hawaiian Islands]), lat. 7/10, alt. 3/20 in.; 1852, USEE, vol. 12, p. 94, pl. 7, fig. 114,a–c (mountains of the Sandwich [Hawaiian] Islands: Oahu [Island], Pickering, Case; Maui [Island], Dryton); 1862, Otia Conch., p. 37. Figured holotype USNM 5516; 5 paratypes MCZ 169411 *ex* NYSM 292, original no. G 2626, labeled "Taheiti" but obviously an error, as this is the locality of *Succinea venusta*. Both lots have same NYSM catalogue number; 4 paratypes MCZ 216585 and 186722 *ex* Smithsonian Inst. (printed label).

umbonata, Placunanomia: 1861, PBSNH, vol. 8, p. 39 (Kagos[h]ima Bay [Japan], W. Stimpson), diam. 25, lat. 4 mm.; 1862, Otia Conch., p. 178. NPEE.

unca, Leda **Plate 28, fig. 2**

1862, PBSNH, vol. 8, p. 282 (Frying-Pan Shoals [Cape Fear], North Carolina, Coast Survey), long. 8, alt. 6, lat. 4 mm.; 1862, Otia Conch., p. 239. Half lectotype, here selected, MCZ 169413 *ex* NYSM 376; original no. G 2652.

undata, Astarte **Plate 30, fig. 2**

1841, Invert. Massachusetts, p. 80, figs. 45, 46 (fish caught in Massachusetts Bay; Newport and Portland [Maine] harbors;

semifossil, Augusta, Maine, C. T. Jackson); mentioned as being in Massachusetts State Cabinet 206 [specimen lost] and BSNH 1805; 1862, Otia Conch., p. 181; 1870, Invert. Massachusetts, p. 120, fig. 432. Lectotype, here selected, MCZ 216819 *ex* BSNH 9089, original nos. 1805, 1823; 4 paratypes MCZ 225230 from same BSNH lot.

This species was described by Gould under his description of *Astarte sulcata* Da Costa, 1778.

undatella, Bela: 1862, PBSNH, vol. 8, p. 281 (dredged in 400 fathoms, off the coast of Georgia), axis 3, diam. 1.5 mm.; 1862, Otia Conch., p. 238.

undatella, Chlorostoma **Plate 10, fig. 3**

1861, PBSNH, vol. 8, p. 20 (Ousima [Amami-O-shima, Ryukyu Islands], Kagos[h]ima and Taneogosima [Tanega-shima, Japan], on surf-washed rocks at low-water mark, W. Stimpson), diam. 15, axis 10 mm.; 1862, Otia Conch., p. 158. Measured holotype USNM 1381; 2 paratypes USNM 11834; 4 paratypes MCZ 169412 *ex* NYSM 134, original no. G 2415; labeled "Ousima, Japan"; paratype MCZ 87969 *ex* BSNH 4050 labeled "Ousima, Japan, W. Stimpson"; 2 paratypes MCZ 216603 *ex* Smithsonian Inst. (printed label). NPEE.

undulata, Kellia **Plate 29, fig. 6**

1861, PBSNH, vol. 8, p. 34 (Kagos[h]ima [Japan], W. Stimpson), long. 2, lat. et alt. 1.5 mm.; 1862, Otia Conch., p. 173. Lectotype, here selected, USNM 1319; 2 paratypes USNM 611843 from same lot; 2 paratypes MCZ 135668 *ex* BSNH 1898. NPEE.

***undulata, Lutraria* [*Raëta*]:** 1851, PBSNH, vol. 4, p. 89 (La Paz, Lower California, T. P. Green), long. 2½, alt. 2, lat. 1¼ in.; 1853, BJNH, vol. 6, p. 391, pl. 15, fig. 7; 1862, Otia Conch., p. 211. Figured holotype MCZ 169453 *ex* NYSM 343, original no. A 2910.

unguiformis, Scutellina **Plate 21, figs. 1, 2**

1859, PBSNH, vol. 7, p. 162 (Kagos[h]ima [Japan], W. Stimpson), long. 6, lat. 5, alt. 1 mm.; 1862, Otia Conch., p. 115. Measured holotype USNM 24124, original no. 2059. NPEE.

***unifasciata* Carpenter, *Lacuna* "?":** 1856 [1857], *in* Gould and Carpenter, Proc. Zool. Soc. London, p. 205. See Palmer, 1858, Geol. Soc. Amer. Mem., no. 76, p. 156.

urbanus, Ziziphinus **Plate 18, fig. 3**

1861, PBSNH, vol. 8, p. 19 (Kagos[h]ima Bay [Japan], W. Stimpson), axis 6, diam. 5 mm.; 1862, Otia Conch., p. 157. Measured holotype USNM 24248; 2 paratypes MCZ 169414 *ex* NYSM 131, original no. G2434. NPEE.

***usta, Mysia* (*Felania*)** **Plate 26, fig. 6**

1861, PBSNH, vol. 8, p. 32 (Hakodadi [Hakodate] Bay [Japan], in sandy mud, 8 fathoms, W. Stimpson), long. 30, alt. 27, lat. 15 mm.; 1862, Otia Conch., p. 170. Measured holotype USNM 1649. NPEE.

usta, Segmentina: 1859, PBSNH, vol. 7, p. 41 (Loo Choo [Ryukyu] Islands, W. Stimpson), alt. 1/10, diam. 2/10 in.; 1860, Otia Conch., p. 106. NPEE.

vainafa, Melania: 1847, PBSNH, vol. 2, p. 224 (Falls of Vainafa, Upolu, Samoa Islands, J. P. Couthouy), long. 7/8, lat. 3/10 in.; 1852, USEE, vol. 12, p. 138, pl. 10, fig. 157,a-b; 1862, Otia Conch., pp. 46, 244. Figured holotype USNM 5557; 2 paratypes Redpath Mus. 4360.

valga, Columbella: 1850, PBSNH, vol. 3, p. 169 (Pacific?), long. 1/2, lat. 1/5 in.; 1852, USEE, vol. 12, p. 268, pl. 19, fig. 338,a-c (either Brazil or the Samoa Islands); 1862, Otia Conch., pp. 71, 245. Figured holotype USNM 5733; paratype MCZ 216626 *ex* Smithsonian Inst. (printed label).

vallata, Drillia **Plate 7, fig. 6**

1869, PBSNH, vol. 7, p. 336 (vicinity of Hong Kong [China], in 10 fathoms, shelly mud, W. Stimpson), axis 9, diam. 3 mm.; 1862, Otia Conch., p. 133. Lectotype, here selected, USNM 24195, original no. 528, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 575, pl. 51, figs. 6, 7. NPEE.

***vallatum, Cyclostoma* [*Omphalotropsis*]:** 1847, PBSNH, vol. 2, p. 206 (Tongataboo [Island, Tonga Islands], Drayton), lat. 1/8, alt. 1/5 in.; 1852, USEE, vol. 12, p. 107, pl. 8 fig. 122,a; 1862, Otia Conch., pp. 39, 244. Figured holotype USNM 5523.

varicosa, Modiola: 1843, PBSNH, vol. 1, p. 144 ([Tavoy,] British Burmah [Burma], F. Mason), long. 1/2, lat. 7/20, alt. 0.5 in.; 1862, Otia Conch., p. 191.

varicosa, Modiolaria: 1861, PBSNH, vol. 8, p. 37 (Sydney Bay, New South Wales [Australia], W. Stimpson), long. 9, alt. 6, lat. 2.5 mm.; 1862, Otia Conch., p. 176. Type lot. USNM 289, not found. NPEE.

varicosus, Phos: 1849, PBSNH, vol. 3, p. 143 (Philippine Islands), long. 1 1/8, lat. 2/10 in.; 1856, USEE, vol. 12, Addenda and Corrigenda, p. 507, pl. 20, fig. 360,a; 1862, Otia Conch., p. 66. Figured holotype USNM 5755.

***variolosa, Pupa* [*Vertigo*]:** 1848, PBSNH, vol. 3, p. 40 (Florida, J. Bartlett), long. 1/12 in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2, p. 331, pl. 72, fig. 2; 1862, Otia Conch., p. 204. Five specimens were originally examined.

vegetus, Bulimus: 1853, BJNH, vol. 6, p. 375, pl. 14, fig. 2 (San Juan, Gulf of California, T. P. Green), length 1½, breadth nearly 1 in.; 1862, Otia Conch., p. 184. Figured holotype MCZ 169415 *ex* NYSM, original no. A 1062.

velatum, Buccinum (***Bullia?***) [***Bullia,*** **subgenus** ***Leiodomus***]: 1850, PBSNH, vol. 3, p. 151 (Mindanao, Philippine Islands), long. 1, lat. ⅝ in.; 1852, USEE, vol. 12, p. 252, pl. 19, fig. 319,a; 1862, Otia Conch., pp. 67, 245. 2 syntypes USNM 18134, both smaller than the figured type; syntype MCZ 216615 *ex* Smithsonian Inst. (printed label).

ventricosa, Achatina: 1850, PBSNH, vol. 3, p. 195 (Liberia, G. A. Perkins), long. 5, lat. 3½, aperturae: long. 3, lat. 1¾ in.; 1862, Otia Conch., p. 208. Holotype MCZ 169442 *ex* NYSM 187, original no. A 6508, figured by Bequaert, 1950, Bull. MCZ, vol. 105, pl. 22, fig. 3.

ventricosa, Cardita [***Actinobolus***]: 1850, PBSNH, vol. 3, p. 276 (Puget Sound [Washington]), lat. ¾, alt. ⅝, lat. ½ in.; 1852, USEE, vol. 12, p. 417, pl. 36, fig. 532,a; 1862, Otia Conch., pp. 83, 246. 5½ syntypes USNM 3373; syntype MCZ 216813 *ex* Smithsonian Inst. (printed label).

ventricosa, Lutraria [***Mactrella***] **Plate 27, fig. 3**

1851, PBSNH, vol. 4, p. 89 (Mazatlan [Mexico], T. P. Green), long. 3¾, lat. 1¾, alt. 3 in.; 1853, BJNH, vol. 6, p. 390; 1862, Otia Conch., p. 211. Measured holotype MCZ 169451 *ex* NYSM 344, original no. A 5695; half paratype MCZ 169452 from same NYSM lot; 1 whole and 2 half paratypes USNM 15902.

ventricosa, Lyonsia: 1861, PBSNH, vol. 8, p. 23 (Hakodadi [Hakodate] Bay [Japan], 2–6 fathoms, sandy mud, W. Stimpson), long. 17, alt. 9, lat. 8 mm.; 1862, Otia Conch., p. 162. Syntype MCZ 169416 *ex* NYSM 341, original no. G 2500, specimen badly broken. NPEE.

venusta, Corbula **Plate 23, fig. 6**

1861, PBSNH, vol. 8, p. 25 (Hakodadi [Hakodate] Bay [Japan], in shelly sand, 5–8 fathoms, W. Stimpson), long. 10, alt. 7, lat. 4 mm.; 1862, Otia Conch., p. 164. Type lot, USNM 1676, not found. Lectotype, here selected, Redpath Mus. 15568 labeled "Hakodadi, Stimpson" *ex* P. P. Carpenter coll. NPEE.

venusta, Succinea: 1846, PBSNH, vol. 2, p. 186 (Hawaii), long. 7/10, lat. ¼, alt. ⅛ in.; 1852, USEE, vol. 12, p. 22, pl. 2, fig. 25,a–b (Mount Kea, at an elevation of 7000 feet, Hawaii, Sandwich [Hawaiian] Islands); 1862, Otia Conch., p. 30. Figured holotype USNM 5425; 4 paratypes MCZ 169417 *ex* NYSM 292, original no. G 2648, labeled "Taheiti" but obviously an error as this is the

locality of *Helicina uberta*. Both lots have same NYSM catalog number; 2 paratypes MCZ 39647 *ex* Smithsonian Inst. (printed label).

venustula, Physa: 1847, PBSNH, vol. 2, p. 215 (Lima, Peru, J. P. Couthouy), long. 3/10, lat. 2/10 in.; 1852, USEE, vol. 12, p. 115, pl. 8, fig. 134,a–b; 1862, Otia Conch., p. 43. Figured holotype USNM 5534; paratype MCZ 151590 *ex* Smithsonian Inst. (printed label).

verecunda, Helicina **Plate 41, fig. 8**

1859, PBSNH, vol. 6, p. 425 (Loo Choo [Okinawa, Ryukyu Islands]), axis 1/5, diam. 1/4 in.; 1862, Otia Conch., p. 105. Measured holotype, USNM 968; smaller paratype USNM 24219; 2 paratypes MCZ 169418 *ex* NYSM 289, original no. G 2480. NPEE.

verecundus, Unio: 1850, PBSNH, vol. 3, p. 295 (Manila [Philippine Islands]), long. 1¾, alt. 1⅛, lat. ⅝ in.; 1852, USEE, vol. 12, p. 431, pl. 37, fig. 541,a–c; 1862, Otia Conch., pp. 89, 246: " . . . is *Unio bengalensis* Lea." Figured holotype USNM 5926; 1½ ideotypes MCZ 169419 *ex* NYSM 480, original no. A 5707, labeled "Bengal."

vermicelli, Doris: 1852, USEE, vol. 12, p. 293, pl. 22, fig. 387,a–c (rocks washed by the surf at Villamar, near Valparaiso [Chile], J. P. Couthouy), long. 2½ in.; 1862, Otia Conch., p. 227.

vermicularis, Planorbis: 1847, PBSNH, vol. 2, p. 212 (interior of Oregon [Washington], Drayton), lat. 1/5, alt. 1/15 in.; 1852, USEE, vol. 12, p. 112, pl. 8, fig. 131,a–b; Otia Conch., p. 42.

verna, Fissurella: 1846, PBSNH, vol. 2, p. 155 (Porto Praya [Praia], St. Jago [São Tiago] Island, Cape de Verde Islands), long. 1⅘, lat. 1⅕, alt. ½ in.; 1852, USEE, vol. 12, p. 366, pl. 31, fig. 472,a–c; 1862, Otia Conch., p. 13. Figured holotype USNM 5862.

vernicosa, Bulla: 1859, PBSNH, vol. 7, p. 138 (Loo Choo [Ryukyu] Islands, W. Stimpson), axis 1.3, diam. .8 in.; 1862, Otia Conch., p. 111. NPEE.

vernicosa, Monilea **Plate 20, fig. 2**

1861, PBSNH, vol. 8, p. 16 (Ousima [Amami-O-shima, Ryukyu Islands], W. Stimpson), axis 4, diam. 6 mm.; 1862, Otia Conch., p. 155. Measured holotype USNM 24177, original no. 1911. NPEE.

vernicosa, Tapes **Plate 25, fig. 3**

1861, PBSNH, vol. 8, p. 30 (Kagos[h]ima Bay and off Hakodadi Hakodate] Cape [Japan], in coarse sand, 20 fathoms, W. Stimpson), long. 3, alt. 2, lat. 1.5 in.; 1862, Otia Conch., p. 168. Lectotype, here selected, MCZ 169420 *ex* NYSM, original no. G 2520; from latter locality; half paratype USNM 611204 from same NYSM lot. NPEE.

verruca, Diloma **Plate 20, fig. 5**

1861, PBSNH, vol. 8, p. 18 (Coral Seas, China, W. Stimpson), axis 4, diam. 3 mm.; 1862, Otia Conch., p. 156. Lectotype, here selected, USNM 420, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 563, pl. 50, figs. 10, 11; paratype USNM 24190. NPEE.

verruca, Trochus [***Collonia***] **Plate 15, fig. 11**

1845, PBSNH, vol. 2, p. 27 (Sandwich [Hawaiian] Islands), long. ⅛, lat. ⅛ in.; 1862, Otia Conch., p. 195. Lectotype, here selected, MCZ 169421 *ex* NYSM 122, original no. G 2530; 18 paratypes MCZ 169422 and 3 paratypes USNM 611215 from same NYSM lot.

vesicalis, Bulimus: 1853, BJNH, vol. 6, p. 375, pl. 14, fig. 1 (Lower California, W. Rich), length 1¼, breadth 7/10 in.; 1862, Otia Conch., p. 184; not Pfeiffer 1853, changed to *Bulimus sufflatus* 'Gould,' W. G. Binney 1859, BJNH, vol. 7, p. 25. Figured holotype MCZ 169423 *ex* NYSM 204, original no. A 5494; 3 paratypes MCZ 217125 *ex* W. G. Binney coll.

vesicalis, Succinea: 1846, PBSNH, vol. 2, p. 183 (Mauna Kea, elevation of 7000 ft., Hawaii, Sandwich [Hawaiian] Islands, J. P. Couthouy), long. 1/10, lat. ⅜, alt. ⅜ in.; 1852, USEE, vol, 12, p. 21, pl. 2, fig. 17,a; 1862, Otia Conch., pp. 28, 244. Holotype USNM 5417 reduced to fragments.

vesicula, Bulla (***Haminea***)**:** 1855, *in* Blake, Appendix, Prel. Geol. Rep. R.R. Routes to Pacific, p. 26 (San Diego [California], W. P. Blake), no measurements; 1856, *in* Williamson, Rep. Explor. California for R.R. Routes, vol. 5, pt. 2, appendix, art. 3, p. 334, pl. 11, fig. 29; length 3/10, breadth ⅛ in.; 1856 [1857], Gould and Carpenter, Proc. Zool. Soc. London, p. 203.

vesicula, Lucina [***Loripes***]**:** 1850, PBSNH, vol. 3, p. 256 (Tongataboo [Island, Tonga Islands], Pickering), long. 1¼, alt. 1⅛, lat. ⅝ in.; 1852, USEE, vol. 12, p. 414, pl. 36, fig. 525,a–b; 1862, Otia Conch., p. 82, 246. Figured holotype USNM 42779; paratype MCZ 88186 *ex* BSNH 8256; paratype MCZ 161878 *ex* Smithsonian Inst. (printed label).

vespa, Clausilia **Plate 39, fig. 6**

1856, PBSNH, vol. 6, p. 13 (Tavoy [Burma], F. Mason), long. 1, lat. 3/10 in.; 1862, Otia Conch., p. 220. Probable measured holotype, here selected, lectotype MCZ 169455 *ex* NYSM—; original no. A 1242; paratype MCZ 169456 from same NYSM lot.

vespertinus, Chiton (***Chaetopleura***)**:** 1852, USEE, vol. 12, p. 323, pl. 27, fig. 426,a–b (Puget Sound, Oregon [Washington]), long. 1¼, lat. 3/10 in.; 1862, Otia Conch., p. 230, 242. Carpenter, 1864, Rep. British Assn. Adv. Sci. 1863, pp. 530: " . . . figure made up from broken specimens." This is "holotype" USNM 5817.

***vidua, Avicula* [*Meleagrina*]:** 1850, PBSNH, vol. 3, p. 309 (Feejee [Fiji] Islands), long. 1¼, alt. ¾, lat. 7/10 in.; 1852, USEE, vol. 12, p. 439, pl. 39, fig. 553,a–b; 1862, Otia Conch., p. 89. Figured holotype USNM 5938.

vidua, Littorina: 1859, PBSNH, vol. 7, p. 138 (Ousima [Amami-O-shima, Ryukyu Islands]), axis 7, diam. 4 mm.; 1862, Otia Conch., p, 110, NPEE.

villica, Cylichna **Plate 7, fig. 2**

1859, PBSNH, vol. 7, p. 139 (China Seas, W. Stimpson), axis 3, diam. 1.5 mm.; 1862, Otia Conch., p. 112. Possible holotype USNM 418, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 580, pl. 51, fig. 53. It actually measures: axis 3.2, diam. 1.5 mm. Yen says: "Judging by the expression 'utroque aubconica' it does not seem to be quite exact. It is truncate and flat on top, obtusely angulated at the shoulder, and somewhat reduced at the base. The lateral outline is gently convex."

villica, Rissoina **Plate 45, figs. 1, 2**

1861, PBSNH, vol, 7, p. 401 (Loo Choo [Okinawa, Ryukyu Islands], and Kikaia [Kikaigashima, Ryukyu Islands], W. Stimpson), axis 6, diam. 3 mm.; 1862, Otia Conch., p. 145. Lectotype, here selected, MCZ 169424 *ex* NYSM 92, original no. G 2468, labeled "Loo Choo"; paratype MCZ 225220; paratype "?" USNM 1039; paratype USNM 7508. NPEE.

vinosa, Physa: 1847, PBSNH, vol. 2, p. 263, text fig. (Lake Superior Region, C. T. Jackson), long. ¾, lat. ½ in.; 1850, *in* Agassiz, Lake Superior, p. 244, pl. 7, figs. 10–11 (north shore of Lake Superior at Michipichotin [Michipicoten Harbor]); 1862, Otia Conch., p. 201. Possible syntype MCZ 85809 *ex* W. G. Binney, labeled "Type"; syntype MCZ 272998 *ex* W. G. Binney.

It is probable that these specimens were the ones subsequently collected by Agassiz and are not from the original lot.

violacea, Atlantica: 1852, USEE, vol. 12, p. 493, pl. 51, fig. 599,a–b (found in the stomach of a Bonito, lat. 30° S., long. 20° W., figured by Mr. Drayton), long. integ. ⅜, lat. ½ in.; 1862, Otia Conch., p. 236.

virgata, Physa **Plate 44, fig. 5**

1855, PBSNH, vol. 5, p. 128 (Gila River [Arizona] and near San Francisco [California], T. H. Webb), long. ⅜, lat. ¼ in.; 1862, Otia Conch., p. 43. Lectotype, here selected, MCZ 72995 *ex* W. G. Binney; 8 paratypes MCZ 85812 and 225226 *ex* T. H. Webb.

virginea, Columbella **Plate 8, fig. 16**

1860, PBSNH, vol. 7, p. 335 (China Seas, W. Stimpson), axis 4, diam. 1 mm.; 1862, Otia Conch., p. 131. Lectotype, here selected, USNM 382, figured by Yen, 1944, Proc. California Acad. Sci.,

ser. 4, vol. 23, p. 573, pl. 51, figs. 33, 34; paratype USNM 24139; 2 paratypes MCZ 169426 *ex* NYSM—, original no. A 2470. NPEE.

virginea, Physa: 1847, PBSNH, vol. 2, p. 215 (Rio Sacramento, California, Lt. Budd), long. ⅜, lat. 5/16 in.; 1852, USEE, vol. 12, p. 120, pl. 9, fig. 138,a; 1862, Otia Conch., p. 43. Holotype USNM 5538 reduced to fragments.

viridescens, Odostomia: 1861, PBSNH, vol. 7, p. 405 (China Seas, W. Stimpson), axis 3, diam. 7 mm.; 1862, Otia Conch., p. 149. NPEE.

***viridulus* 'Couthouy' Gould, *Chiton* [*Lepidopleura*]:** 1846, PBSNH, vol. 2, p. 144 (Orange Harbor [located on the west side of Bahía Nassau, Tierra del Fuego]), long. ⅜, lat. 7/20 in.; 1852, USEE, vol. 12, p. 318, pl. 27, fig. 413,a–c; 1862, Otia Conch., p. 5. Measured holotype USNM 19973; paratype USNM 612320; 2 paratypes MCZ 86776 *ex* BSNH 7548.

vitellina, Mitra: 1850, PBSNH, vol. 3, p. 170 (hab.?), long. 1¾, lat. 7/20 in.; 1852, USEE, vol. 12, p. 270, pl. 20, fig. 352,a (probably East Indies); 1862, Otia Conch., p. 72. Figured holotype USNM 5747.

vitiana, Truncatella: 1847, PBSNH, vol. 2, p. 208, (Feejee [Fiji] Islands), long. 3/10, lat. 1/10 in.; 1852, USEE, vol. 12, p. 109, pl. 8, fig. 126,a–b; 1862, Otia Conch., p. 40. Figured holotype USNM 20617 with note: "Wrongly catalogued in 1867, this is the species figured in USEE"; 3 paratypes MCZ 178664 *ex* Smithsonian Inst. (printed label).

vitrea, Philine **Plate 35, fig. 2**

1859, PBSNH, vol. 7, p. 139 (dredged at Hong Kong [China], W. Stimpson), axis 10, diam. 8, alt. 3 mm.; 1862, Otia Conch., p. 111. Lectotype, here selected, USNM 24077, figured by Yen, 1944, Proc. California Acad. Sci., ser. 4, vol. 23, p. 580, pl. 51, fig. 64; lot also contains smaller paratype, the dried animal mounted on same glass plate. NPEE.

vittatus, Trochus: 1840, Silliman's Amer. Journ. Sci., ser. 1, vol. 38, p. 396 [nomen nudum].

volutata, Limnea: 1847, PBSNH, vol. 2, p. 211 (Oahu, Hawaiian Islands), long. 3/10, lat. ⅕ in.; 1852, USEE, vol. 12, p. 122, pl. 9, fig. 142,a–b; 1862, Otia Conch., p. 41. Probable holotype USNM 5542; paratype USNM 612310; 2 paratypes MCZ 169427 *ex* NYSM 300, original no. G 2528; 25 paratypes MCZ 216788 *ex* Smithsonian Inst. (printed label).

vultuosa, Helix **Plate 37, fig. 6**

1848, PBSNH, vol. 3, p. 39 (Arkansas and Texas, J. Bartlett), diam. ⅖, alt. ⅕ in.; 1851, *in* A. Binney, Terr. Moll. U.S., vol. 2,

p. 189, pl. 40,a, fig. 4 (Texas: near Corpus Christi and Galveston, J. Bartlett); 1862, Otia Conch., p. 204. Probable figured holotype, here selected, lectotype MCZ 169431 *ex* NYSM 272, original no. A 5461; 2 paratypes MVZ 169432 and paratype USNM 611277 from same NYSM lot.

xanthocheilum* 'Gould' Carpenter, *Cardium: 1856 [1857], Proc. Zool. Soc. London, p. 201 [nomen nudum]. Listed under synonymy of *Cardium luteolabum* Gould.

zebrina, Partula: 1847, PBSNH, vol. 2, p. 196 (Tutuila, Samoa Islands), long. 5/10, lat. ½ in.; 1852, USEE, vol. 12, p. 82, pl. 6, fig. 89,a (Upolu and Tutuila, Samoa Islands, on *Dracaena borealis*, J. P. Couthouy, J. Drayton, Mr. Case); 1856, ibid., Addenda and Corrigenda, p. 501; 1862, Otia Conch., pp. 33, 244. Figured holotype USNM 5491; paratype MCZ 169428 *ex* NYSM 386, original no. A 1138.

zelandica, Melanopsis: 1847, PBSNH, vol. 2, p. 225 (New Zealand), long. 5/10, lat. 2/10 in.; 1852, USEE, vol. 12, p. 130, pl. 9, fig. 146,a–b; 1862, Otia Conch., p. 47. Figured holotype USNM 5546; lot also contains smaller paratype; 11 paratypes USNM 20000; 8 paratypes MCZ 169429 *ex* NYSM 79, original no. A 6754; 9 paratypes MCZ 87937 *ex* BSNH 5233; 4 paratypes MCZ 197142 *ex* Smithsonian Inst. (printed label).

***zizac, Helix* [*Theba*]:** 1846, PBSNH, vol. 2, p. 166 (New South Wales [Australia]), lat. 3/10, alt. ⅛ in.; 1852, USEE, vol. 12, p. 41, pl. 3, fig. 44,a–c; (a crater near Tamiaimi [near Bay of Islands], New Zealand, Pickering); 1856, ibid., Addenda and Corrigenda, p. 501; 1862, Otia Conch., pp. 17, 243.

zonale* 'Linsley Gould' *Buccinum: 1848, Silliman's Amer. Journ. Sci., ser. 2, vol. 6, p. 236, fig. 8 (Connecticut), long. ⅛, lat. 1/12 in.

***zonata, Columbella* [(*Anachis*)]** **Plate 8, fig. 6**
1860, PBSNH, vol. 7, p. 334 (Kagos[h]ima [Japan], W. Stimpson), axis 3, diam. 2 mm.; 1862, Otia Conch., p. 130. Lectotype, here selected, USNM 1376; paratype USNM 24249; 2 paratypes MCZ 169430 *ex* NYSM 33, original no. G 2465; paratype Redpath Mus. 8059. NPEE.

***zonata, Velutina* [*Morvillia*]** **Plate 17, fig. 2**
1841, Invert. Massachusetts, p. 242, fig. 160 (Chelsea Beach and off Cape Ann [Massachusetts]), length 2/10, breadth 13/40 in. Mentioned as being in Massachusetts State Cabinet 126 [specimen lost] and BSNH 2409; 1862, Otia Conch., p. 182; 1870, Invert. Massachusetts, p. 335, fig. 606. Lectotype, here selected, MCZ 225221 *ex* BSNH, 8949, original no. 283; 2 paratypes MCZ 225212 from same lot.

The Brachiopoda and Tunicata Described by Gould

amphora, Cynthia: 1852, USEE, vol. 12, p. 495, pl. 52, fig. 609 (found abreast of Fort Santa Cruz, Rio [de] Janeiro [Brazil], in four or five fathoms), height 1½, circumference 3 to 4 in.; 1862, Otia Conch., p. 236.

caurina, Terebratula [***Terebratella***]: 1850, PBSNH, vol. 3, p. 347, (Puget Sound [Washington]), long. ½, lat. 1⁹⁄₂₀, alt. ⅛ in.; 1852, USEE, vol. 12, p. 468, pl. 44, fig. 582,a–e; Otia Conch., p. 97.

coacta, Boltenia: 1852, USEE, vol. 12, p. 496, pl. 52, fig. 612,a (Orange Harbor [located on west side of Bahía Nassau, Tierra del Fuego], J. P. Couthouy), length of sac 2½, diam. just above peduncle ½ in.; 1862, Otia Conch., p. 236.

miniata, Terebratella: 1860, PBSNH, vol. 7, p. 323 (Hakodadi [Hakodate] Bay [Japan], W. Stimpson), diam. long. et transv. 1.5, alt. ⅞ in.; 1862, Otia Conch., p. 120. Type lot USNM 24365; paratypes original no. G 2519 listed as lost, *in* 1875, 27th Ann. Rept. NYSM, p. 13. NPEE.

monstrans, Ascidia: 1852, USEE, vol. 12, p. 496, pl. 52, fig. 611 (near entrance of harbor of Rio [de] Janeiro [Brazil], in 3 fathoms of water, attached to old shells, etc., J. P. Couthouy), height sometimes 1 in.; diameter about two-thirds height; 1862, Otia Conch., p. 236.

patagonica, Terebratula [***Waldheimia***]: 1850, PBSNH, vol. 3, p. 347 (coast of Patagonia [Argentina]), length ½, breadth ¼, height ⅛ in.; 1852, USEE, vol. 12, p. 469, pl. 44, fig. 583,a–e; 1862, Otia Conch., p. 97.

pulvinata, Terebratula [***Waldheimia***]: 1850, PBSNH, vol. 3, p. 347 (Puget Sound [Washington]), diam. ⅝, alt. ¼ in.; 1852, USEE, vol. 12, p. 467, pl. 44, fig. 581,a–e; 1862, Otia Conch., p. 97.

radiosa, Crania [(***Discina***)]: 1852, USEE, vol. 12, p. 465, pl. 44, fig. 580,a–e (one specimen found at Rio [de] Janeiro [Brazil], which seems to be identical with specimens from Cape Palmas [Liberia], and from which description is mainly drawn), diam. ⅛, width ⅛ in.; 1862, Otia Conch., p. 231.

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stella*, *Discina: 1860, PBSNH, vol. 7, p. 324 (adhering to shells dredged in China Sea, W. Stimpson), diam. ¼ in. circiter; 1862, Otia Conch., p. 120. Syntype British Mus. (Nat. Hist.) ZB 1234 figured by Reeve, 1862, Conchologia Iconcica, vol. 13, *Orbicula*, pl. 1, fig. 1b, *ex* Cuming coll. NPEE.

***transversa*, *Terebratula* [*Megerlea*]:** 1860, PBSNH, vol. 7, p. 323 (Hakodadi [Hakodate] Bay [Japan], W. Stimpson), long. 6, diam. transv. 8, lat. 4 in.; 1862, Otia Conch., p. 120. Not Sowerby, 1846. NPEE.

violacea*, *Phallusia: 1852, USEE, vol. 12, p. 495, pl. 52, fig. 610 (single specimen taken in 3 fathoms of water off northern point of entrance to harbor of Rio [de] Janeiro [Brazil], J. P. Couthouy), height 2½, diam. 1½ in.; 1862, Otia Conch., p. 236.

AUGUSTUS ADDISON GOULD
1805–1866

From an original photograph in the A. F. Gray collection of portraits in the Mollusk Department of the Museum of Comparative Zoology, Cambridge, Massachusetts.

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Joseph P. Couthouy.

JOSEPH PITTY COUTHOUY
1808–1864

From an original photograph in the Division of Mollusks, United States National Museum.

Wm. Stimpson

WILLIAM STIMPSON
1832–1872

From the National Academy of Sciences of the United States of America, Biographical Memoirs, vol. 8, 1919, facing p. 419.

PLATE 4

Fig. 1. *Modulus dorsuosus* Gould. Acapulco [Mexico]. Holotype MCZ 169126. Height 10, width 12 mm. (4 x).

Fig. 2. *Monilea inepta* Gould. Kagos[h]ima Bay [Japan]. Holotype USNM 1372. Height 3, width 3 mm. (13 x).

Fig. 3. *Marginella* (*Glabella*) *lepida* Gould. China Seas. Holotype USNM 24184, original no. 440. Height 3, width 2 mm. (13 x).

Fig. 4. *Monilea glareosa* Gould. Loo Choo [Okinawa], Ousima [Amami-O-shima] and Kiahai [Kikaigashima] [all Ryukyu Islands]. Lectotype USNM 971. Height 3, width 4 mm. (13 x).

Fig. 5. *Mitra jaculanda* Gould. China Seas. Holotype USNM 24189. Height 8, width 2.5 mm. (5.5 x).

Fig. 6. *Olivella spreta* Gould. Hong Kong Harbor [China], in 10 fathoms. Holotype USNM 24169. Height 6, width 3 mm. (6.6 x).

Fig. 7. *Monoptygma sinuata* Gould. China Seas. Lectotype MCZ 169374. Height 7, width 3 mm. (7 x).

Fig. 8. *Monoptygma acuminata* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Holotype USNM 24255, original no. 2101. Height 6, width 2 mm. (12 x).

Fig. 9. *Monoptygma puncticulata* Gould. China Seas. Lectotype MCZ 169322. Height 10, width 3.1 mm. (6.5 x).

Fig. 10. *Mitra florida* Gould. Florida. Holotype MCZ 169146. Height 45, width 19, length of aperture 29 mm. (1.5 x).

Fig. 11. *Mitra russa* Gould. China Seas. Lectotype USNM 24164, original no. 431. Height 5.5, width 3.1 mm (6.6 x).

Fig. 12. *Mitra secalina* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Lectotype USNM 20210. Height 5.5, width 2.4 mm. (5.8 x).

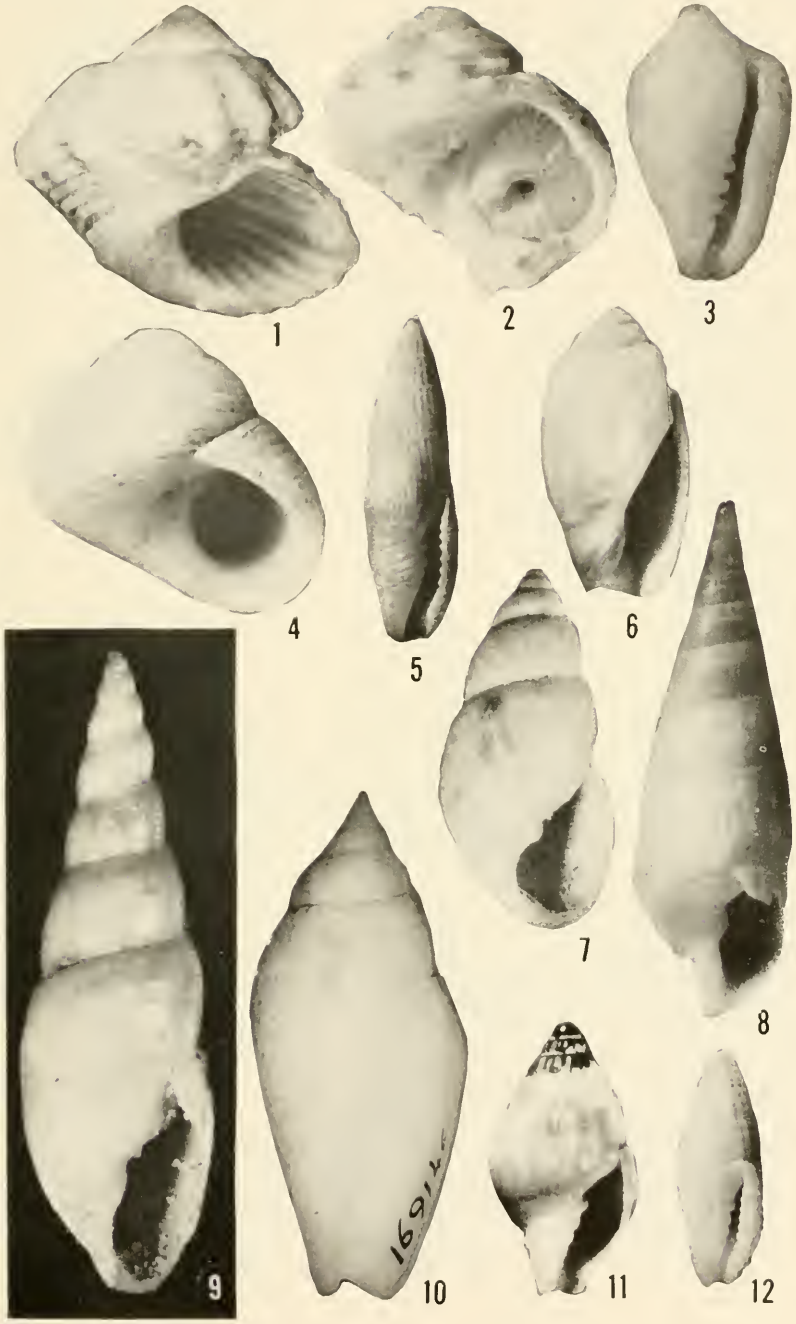
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Plate 5

Fig. 1. *Haminea angusta* Gould. S[h]imoda [Japan]. Holotype USNM 2096. Height 6 width 4 mm. (8 x).

Fig. 2. *Hyala abnormis* Gould. China Sea. Holotype USNM 392. Height 1.7, width .6 mm. (22 x).

Fig. 3. *Fossarus tornatilis* Gould. Hong Kong Harbor [China], 10 fathoms. Holotype USNM 560. Height 5, width 4 mm. (6 x).

Fig. 4. *Clathurella lacunosa* Gould. Hong Kong Harbor [China], in 10 fathoms. Probable holotype USNM 24176, original no. 525 labelled "China Seas." Length 5, width 2.5 mm. (2.5 x).

Fig. 5. *Mangelia glareosa* Gould. Hong Kong Harbor [China], in 10 fathoms. Lectotype USNM 24174, original no. 575. Height 4.5, width 1.5 mm. (4.5 x).

Fig. 6. *Margarita argentata* Gould. In fishes caught off Cape Ann and Cohasset [Massachusetts]. Lectotype MCZ 178560. Height 3, width 3.5 mm. (10 x).

Fig. 7. *Mangelia intaminata* Gould. China Seas. Lectotype USNM 24214. Height 6.3, width 2.3 mm. (7.1 x).

Fig. 8. *Clavatula pungens* Gould. Hong Kong Harbor [China], in 10 fathoms. Holotype USNM 515. Height 9, width 3 mm. (6.5 x).

Fig. 9. *Clathurella aspersa* Gould. Off Hong Kong [China], in 15 fathoms. Lectotype USNM 24147, original no. 532. Height 13.5, width 3.9 mm. (4 x).

Fig. 10. *Margarita mustelina* Gould. Hakodadi [Hakodate] Bay [Japan]. Holotype USNM 31124. Height 3, width 3 mm. (13 x).

Fig. 11. *Margarita musiva* Gould. Hong Kong Harbor [China], 10 fathoms. Lectotype USNM 536. Height 5.8, width 5.2 mm. (6.2 x).

Fig. 12. *Liotia loculosa* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 1010. Height 2, width 5 mm. (5.8 x).

Fig. 13. *Liotia asteriscus* Gould. Hong Kong [China]. Lectotype USNM 24055. Height 1.1, width 2 mm. (19 x).

Fig. 14. *Ethalia capillata* Gould. Coast of China: 23°30′ N, in 25 fathoms. Lectotype USNM 1801. Height 4.9, width 7.9 mm. (4 x).

Fig. 15. *Liotia solidula* Gould. [Kagoshima, Japan.] Lectotype USNM 1295. Height 5.5, width 8 mm. (3.5 x).

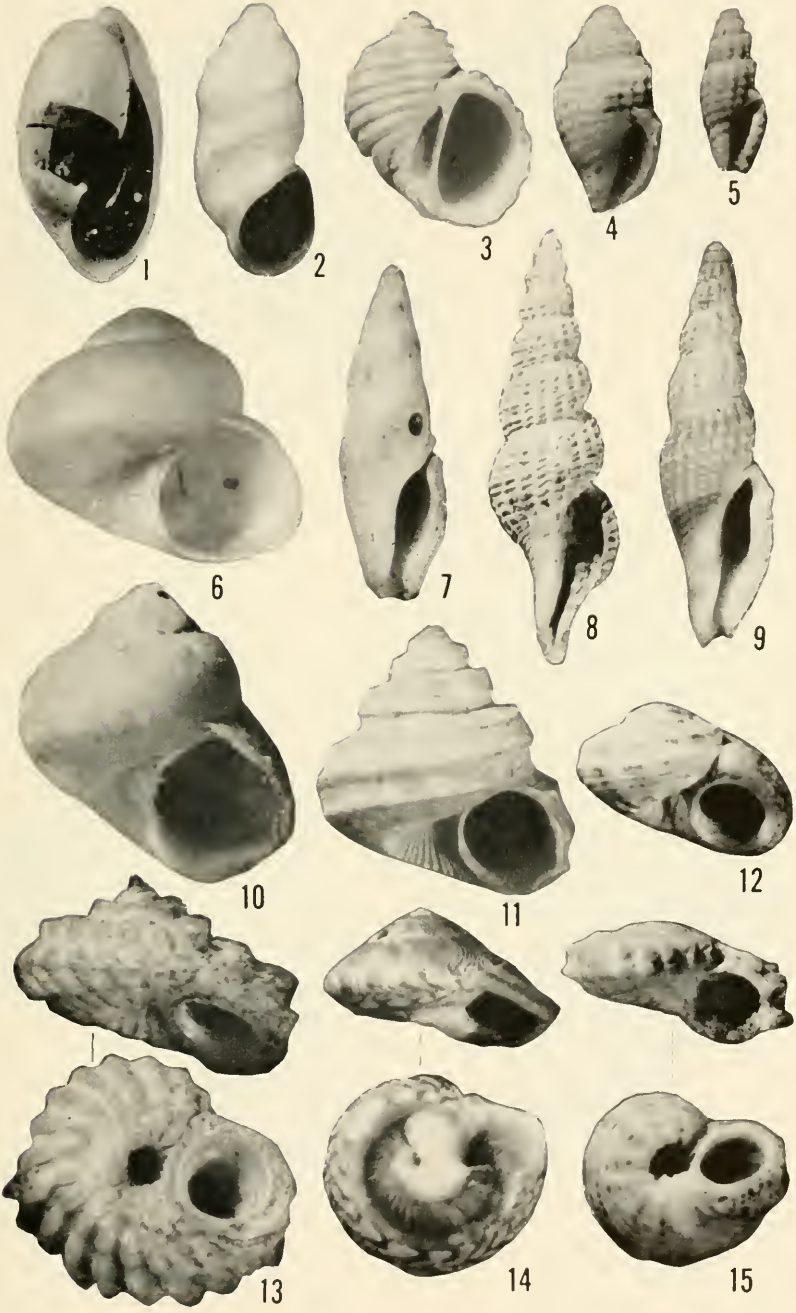
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PLATE 6

Fig. 1. *Gibbula musiva* Gould. Simon's Bay [Cape of Good Hope]. Lectotype MCZ 169251. Height 6, width 6 mm. (10 x).

Fig. 2. *Lacuna neritoides* Gould. Chelsea Beach [Massachusetts]. Lectotype MCZ 169261. Height 7, width 8 mm. (5.5 x).

Fig. 3. *Fusus tornatus* Gould. [Grand] Bank[s] fisheries [off Nova Scotia]. Lectotype MCZ 216594. Height 60, width 31 mm. (1.7 x).

Fig. 4. *Fusus* [*Trophon*] *scalariformis* Gould. [Grand] Bank[s] fisheries [off Nova Scotia]. Lectotype MCZ 216843. Height 31, width 19 mm. (3.6 x).

Fig. 5. *Fusus modestus* Gould. Hakodadi [Hakodate] Bay [Japan], in 10 fathoms. Lectotype USNM 1649. Height 20, width 8 mm. (2 x).

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Plate 7

Fig. 1. *Cylichna laeta* Gould. Kagos[h]ima [Japan]. holotype USNM 1373. Height 5, width 2 mm. (5 x).

Fig. 2. *Cylichna villica* Gould. China Seas. Possible holotype USNM 418. Height 3.2, width 1.5 mm. (10 x).

Fig. 3. *Cylichna protracta* Gould. Coast of China. Lectotype USNM 1864. Height 9, width 4.2 mm. (4 x).

Fig. 4. *Cylichna operosa* Gould. Hong Kong Harbor [China]. Holotype USNM 537. Height 4, width 1 mm. (10 x).

Fig. 5. *Cylichna regularis* Gould. Sydney Harbor [New South Wales, Australia]. Holotype USNM 296. Height 9, width 4 mm. (5 x).

Fig. 6. *Drillia vallata* Gould. Vicinity of Hong Kong [China]. Lectotype USNM 24195, original no. 528. Height 9.8, width 3.2 mm. (6.6 x).

Fig. 7. *Erato leucophaea* Gould. Santa Barbara [California]. Holotype MCZ 169224. Height 7, width 4 mm. (8 x).

Fig. 8. *Dunkeria effusa* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype USNM 980. Actual height 3 mm. (estimated 6 mm.), width 1.5 mm. (11 x).

Fig. 9. *Elenchus exiguus* Gould. Port Jackson [New South Wales, Australia]. Holotype USNM 24230, original no. 378. Height 2, width 1.5 mm. (13 x).

Fig. 10. *Cypraea* [*Trivia*] *gemmula* Gould. Sandwich [Hawaiian] Islands. Lectotype MCZ 169169. Height 5, width 3.5 mm. (9 x).

Fig. 11. *Eulima carneola* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Lectotype MCZ 169334. Height 12, width 4 mm. (8 x).

Fig. 12. *Drillia reciproca* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Lectotype MCZ 169334. Height 12, width 4 mm. (8 x).

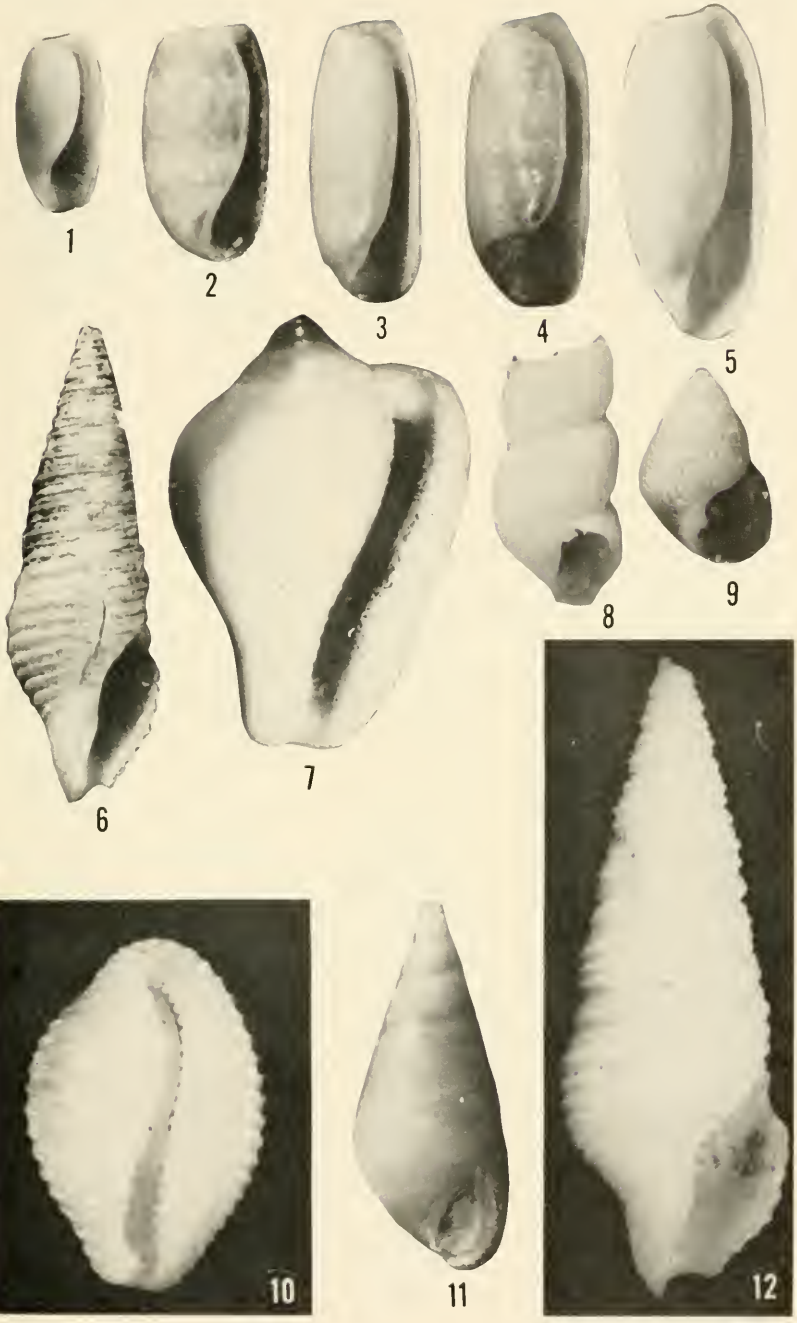
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Plate 8

Fig. 1. *Columbella* [(*Anachis*)] *nebulosa* Gould. China Seas. Lectotype USNM 13283, original no. 412. Height 5.9, width 2.4 mm. (6.6 x).

Fig. 2. *Columbella* [(*Anachis*)] *minuscula* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Lectotype USNM 2025. Height 3.1, width 1.4 mm. (13 x).

Fig. 3. *Columbella* [(*Anachis*)] *fuluminea* Gould. Simon's Bay [Cape of Good Hope]. Lectotype USNM 130. Height 7, width 2 mm. (5.5 x).

Fig. 4. *Columbella* [(*Anachis*)] *dorsuosa* Gould. Hong Kong [China]. Lectotype USNM 14191, original no. 495. Height 6, width 2.2 mm. (6.6 x).

Fig. 5. *Columbella* [(*Anachis*)] *atrata* Gould. Hong Kong Harbor [China]. Lectotype USNM 2026. Height 4.9, width 2 mm. (9 x).

Fig. 6. *Columbella* [*Anachis*] *zonata* Gould. Kagos[h]ima [Japan]. Holotype USNM 1376. Height 5, width 2 mm. (11 x).

Fig. 7. *Columbella* [(*Anachis*)] *minuta* Gould. China Seas. Lectotype USNM 24231, original no. 397. Height 2.5, width 1.2 mm. (19 x).

Fig. 8. *Columbella* (*Anachis*) *balteata* Gould. China Seas. Holotype USNM 24220, original no. 438. Height 4, width 2 mm. (11 x).

Fig. 9. *Columbella araneosa* Gould. Kagos[h]ima Bay [Japan] and China Coast. Lectotype USNM 24108, original nos. 1368 and 1857. Height 9.5, width 4 mm. (4 x).

Fig. 10. *Columbella bicincta* Gould. Hong Kong Harbor [China], 10 fathoms. Lectotype USNM 24167, original no. 517. Height 9, width 4 mm. (4 x).

Fig. 11. *Cylichna melampoides* Gould. China Seas. Lectotype USNM 419. Height 4, width 2.5 mm. (7 x).

Fig. 12. *Crithe atomaria* Gould. China Seas. Holotype USNM 24181, original no. 386. Height 5, width 3 mm. (10 x).

Fig. 13. *Columbella palumbina* Gould. Sandwich [Hawaiian] Islands. Lectotype MCZ 169280. Height 9, width 6 mm. (3.4 x).

Fig. 14. *Columbella lineolata* Gould. Hong Kong [China]. Lectotype USNM 24199, original no. 562. Height 9, width 3.6 mm. (4 x).

Fig. 15. *Columbella alternata* Gould. Hong Kong [China]. Lectotype USNM 24222. Height 3.5, width 1.6 mm. (19.5 x).

Fig. 16. *Columbella virginea* Gould. China Seas. Lectotype USNM 382. Height 3.2, width 1.8 mm. (21 x).

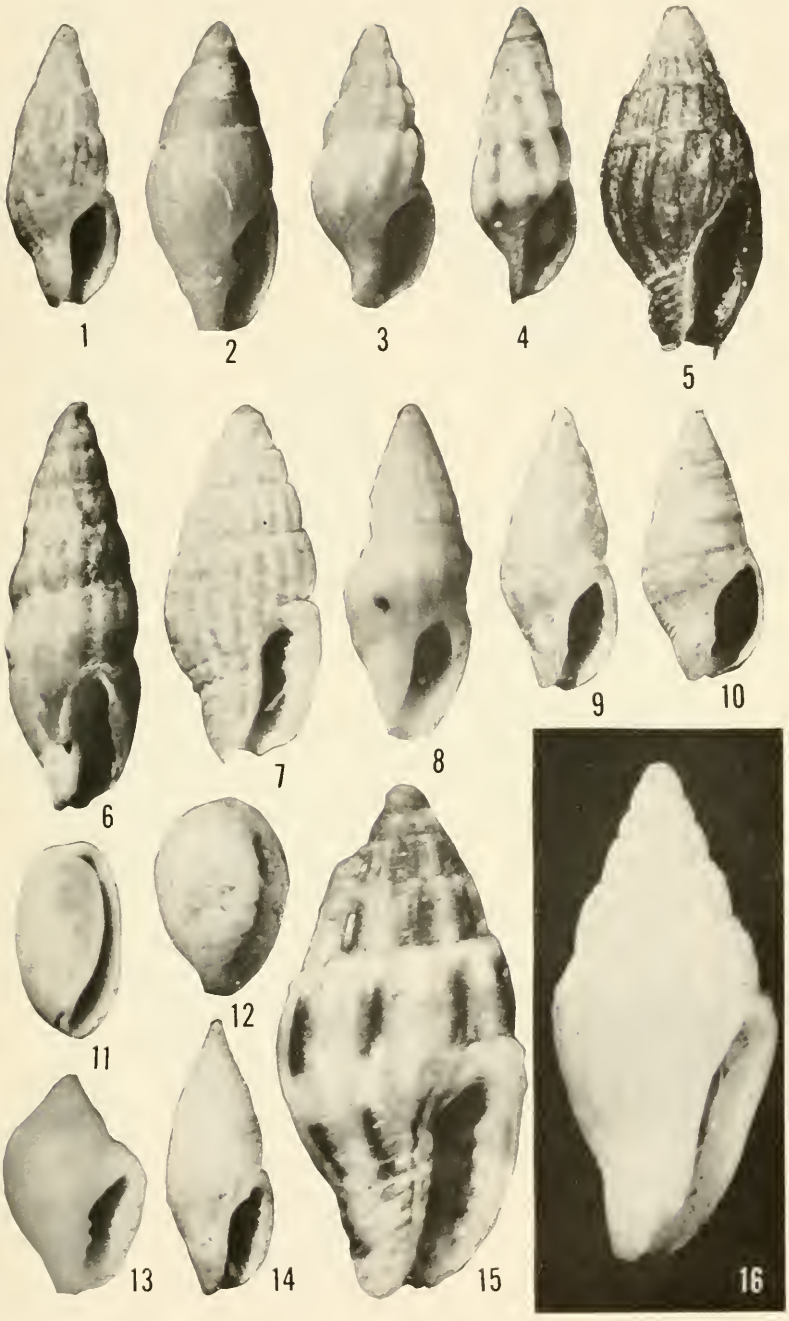
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PLATE 9

Fig. 1. *Odostomia bullula* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype MCZ 24069, original no. 2097. Height 2, width 1 mm. (11 x).

Fig. 2. *Odostomia planata* Gould. Hong Kong [China]. Holotype USNM 24238, original no. 2098. Height 6.5, width 2 mm. (6.6 x).

Fig. 3. *Obeliscus buxeus* Gould. China Seas. Holotype USNM 339. Height 6.5, width 2 mm. (7.1 x).

Fig. 4. *Odostomia lirata* Gould. China Seas [Hong Kong Harbor, China]. Holotype USNM 585. Height 8.5, width 4 mm. (5.9 x).

Fig. 5. *Obeliscus ornatus* Gould. China Seas. Holotype USNM 523. Height 16, width 6 mm. (3.9 x).

Fig. 6. *Odostomia subplanata* Gould. Hong Kong [China]. Lectotype USNM 2099. Height 3.1, width 1 mm. (10 x).

Fig. 7. *Odostomia physoides* Gould. China Seas. Holotype USNM 564. Height 3, width 2 mm. (12 x).

Fig. 8. *Persicula tantilla* Gould. China Seas. Lectotype USNM 24258, original no. 445. Height 2, width 1.4 mm. (28 x).

Fig. 9. *Polydonta* (*Infundibulum*) *lacertinum* Gould. Hong Kong Harbor [China]. Holotype USNM 24888, original no. 629. Height 25, width 28 mm. (2 x).

Fig. 10. *Planaxis cingulata* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Holotype USNM 24192, original no. 1556. Height 12, width 6 mm. (3 x).

Fig. 11. *Pisania mollis* Gould. S[h]imoda [Japan]. Lectotype MCZ 187742. Height 19.3, width 10.8 mm. (4 x).

Fig. 12. *Purpura ostrina* Gould. Killimook [Tillamook], Oregon. Lectotype MCZ 169275. Height 22, width 14 mm. (2.7 x).

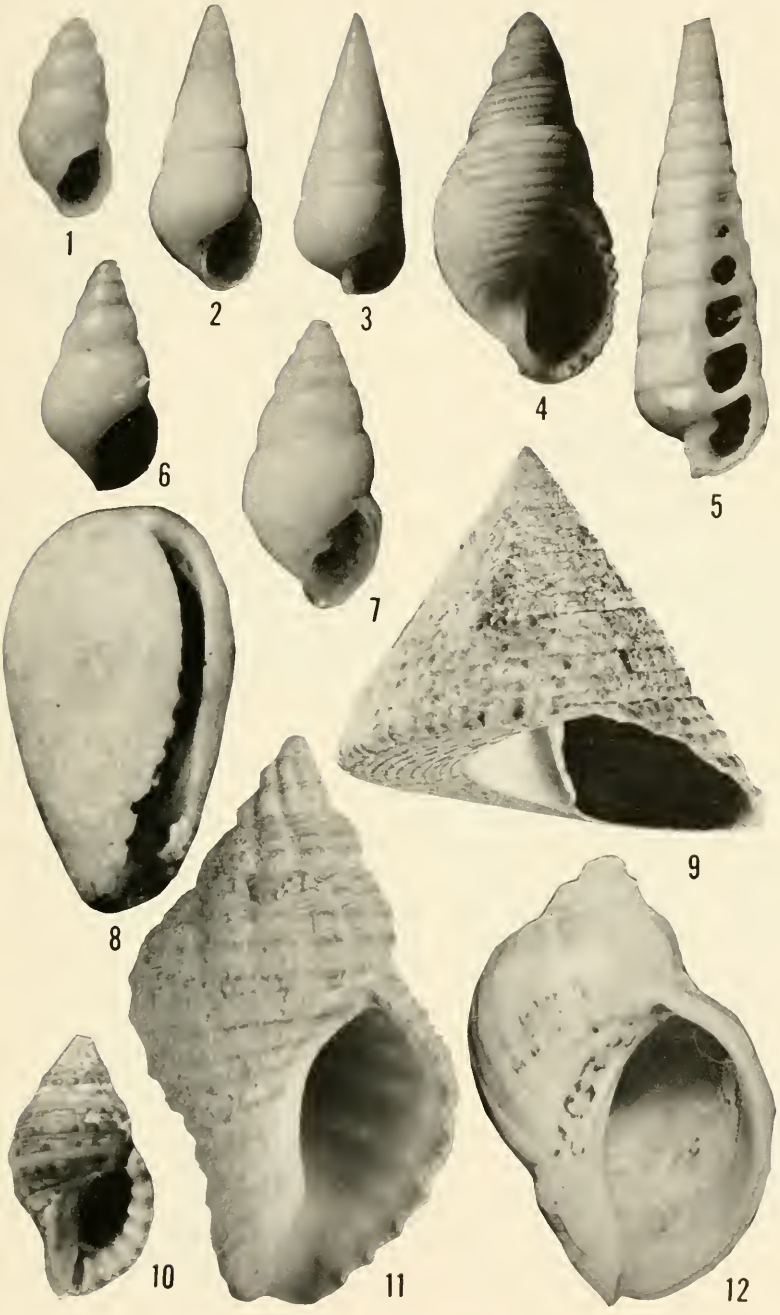
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PLATE 10

Fig. 1. *Cerithiopsis semipicta* Gould. China Seas. Holotype USNM 24208, original no. 376. Height 2.5, width 1 mm. (19 x).

Fig. 2. *Columbella* (*Strombina*) *pungens* Gould. Port Lloyd, Bonin Islands. Lectotype USNM 903. Height 11, width 4 mm. (4.5 x).

Fig. 3. *Chlorostoma undatella* Gould. Ousima [Amami-O-shima, Ryukyu Islands], Kagos[h]ima, and Taneogosima [Tanega-shima, Japan]. Holotype USNM 1381. Height 10, width 15 mm. (5 x).

Fig. 4. *Chlorostoma achates* Gould. S[h]imoda [Japan]. Lectotype MCZ 169032. Height 26, width 33 mm. (1.6 x).

Fig. 5. *Chlorostoma rugatum* Gould. Hakodadi [Hakodate] Bay and S[h]imoda [Japan]. Holotype USNM 1626. Height 20, width 22 mm. (2 x).

Fig. 6. *Cingula aculeus* Gould. East Boston [Massachusetts]. Lectotype MCZ 152869. Height 2.5, width 1.2 mm. (approx. 30 x).

Fig. 7. *Cerithiopsis laqueata* Gould. China Seas. Lectotype USNM 24098, original no. 505b. Height 9, diam. 2 mm. (7 x).

Fig. 8. *Conus castrensis* Gould. Hab.? Lectotype MCZ 169078. Height 44, width 22 mm. (1.5 x).

Fig. 9. *Daphnella deluta* Gould. China Seas. Lectotype USNM 24225, original no. 316. Height 7.6, width 2.5 mm. (6.5 x).

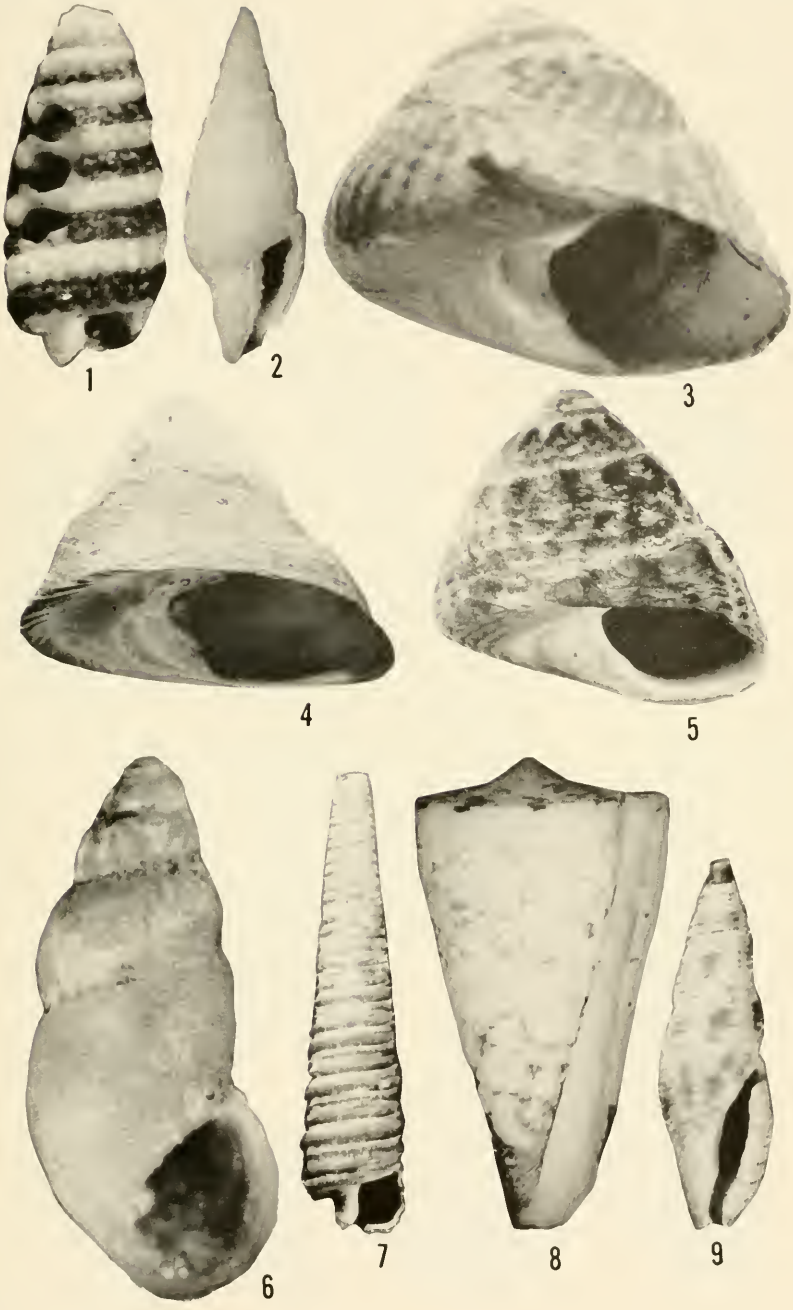

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PLATE 11

Fig. 1. *Buccinum* [*Neptunea*] *stimpsoni* Gould. Arctic Ocean. Holotype MCZ 169454. Height 100, width 45 mm. (1.4 x).

Fig. 2. *Buccinum* [*Neptunea*] *rodgersi* Gould. Arctic Ocean, north of Behring's [Bering] Straits. Holotype MCZ 169338. Height 55, width 25 mm. (1.6 x).

Fig. 3. *Buccinum* [*Columbella*] *rosaceum* Gould. Off Cohasset [Massachusetts]. Lectotype MCZ 169340. Height 7, width 3.2 mm. (7.5 x).

Fig. 4. *Cerithium lacertinum* Gould. Sydney Harbor [New South Wales, Australia]. Holotype USNM 16571, original no. 273. Height 13, width 4 mm. (2 x).

Fig. 5. *Cantharidus lineolaris* Gould. Sydney, New South Wales [Australia]. Holotype USNM 24161, original no. 300. Height 7, width 4 mm. (5.5 x).

Fig. 6. *Cerithidea* (?*sacrata*, var.) *fuscata* Gould. San Diego [California]. Lectotype MCZ 169158. Height 46, width 10 mm. (1.9 x).

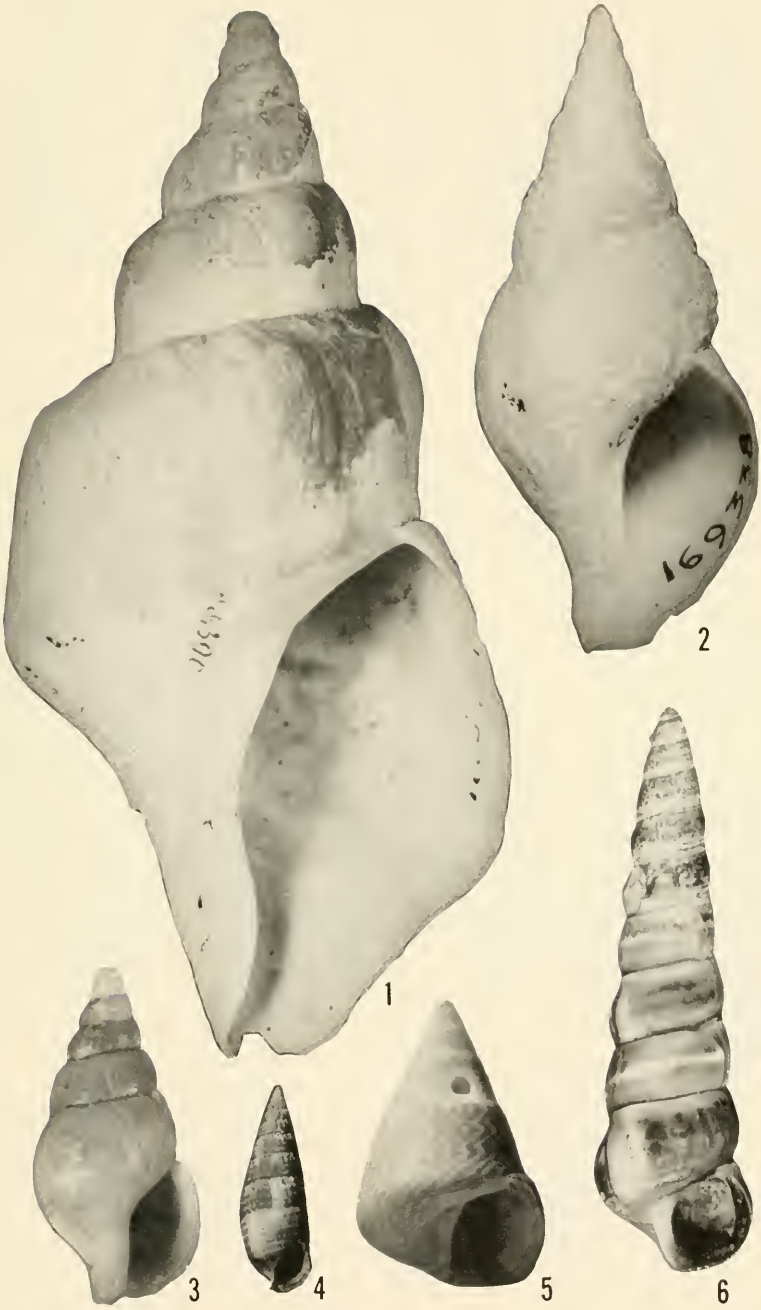
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PLATE 12

Fig. 1. *Alvania acuminata* Gould. Bonin Islands. Holotype USNM 943. Height 3.5, width 1 mm. (11 x).

Fig. 2. *Alvania ligata* Gould. Hong Kong Harbor [China]. Lectotype USNM 948. Height 3.8, width 2 mm. (10 x).

Fig. 3. *Alvania fusca* Gould. Hong Kong Harbor [China]. Lectotype USNM 37347. Height 4.8, width 2 mm. (10 x).

Fig. 4. *Actaeon secale* Gould. China Seas. Holotype USNM 557. Height 4, width 2 mm. (10 x).

Fig. 5. *Alba puncto-striata* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Possible syntype USNM 991. Height 4.5, width 2 mm. (12 x).

Fig. 6. *Assiminea rubida* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 24235, original no. 2102. Height 4, width 3.8 mm. (6 x).

Fig. 7. *Assiminea debilis* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 975. Height 4.5, width 3 mm. (6 x).

Fig. 8. *Atys muscaria* Gould. China Seas. Lectotype USNM 334. Height 4.5, width 2.6 mm. (8.5 x).

Fig. 9. *Aesopus japonicus* Gould. Kagos[h]ima Bay [Japan], at 5 fathoms. Holotype MCZ 169208. Height 7, width 2 mm. (11.4 x).

Fig. 10. *Bankivia lugubris* Gould. Sydney, New South Wales [Australia]. Lectotype USNM 24238, original no. 278. Height 9, width 6 mm. (5.5 x).

Fig. 11. *Bittium alutaceum* Gould. China Seas. Lectotype USNM 24179, original no. 531. Height 7.2, width 3.1 mm. (6.6 x).

Fig. 12. *Bittium craticulatum* Gould. Hong Kong [China]. Lectotype MCZ 169100. Height 7, width 2.1 mm. (13 x).

Fig. 13. *Atys porcellana* Gould. Kagos[h]ima Bay [Japan]. Holotype USNM 1357. Height 12, width 5 mm. (1.9 x).

Fig. 14. *Bittium parcum* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype USNM 2040. Height 4, width 1.8 mm. (10.5 x).

Fig. 15. *Bittium glareosum* Gould. Port Lloyd, Bonin Islands, and Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 24221, original no. 971. Height 6, width 2 mm. (7 x).

Fig. 16. *Clathurella rubicunda* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 24163. Height 5, width 2 mm. (5.5 x).

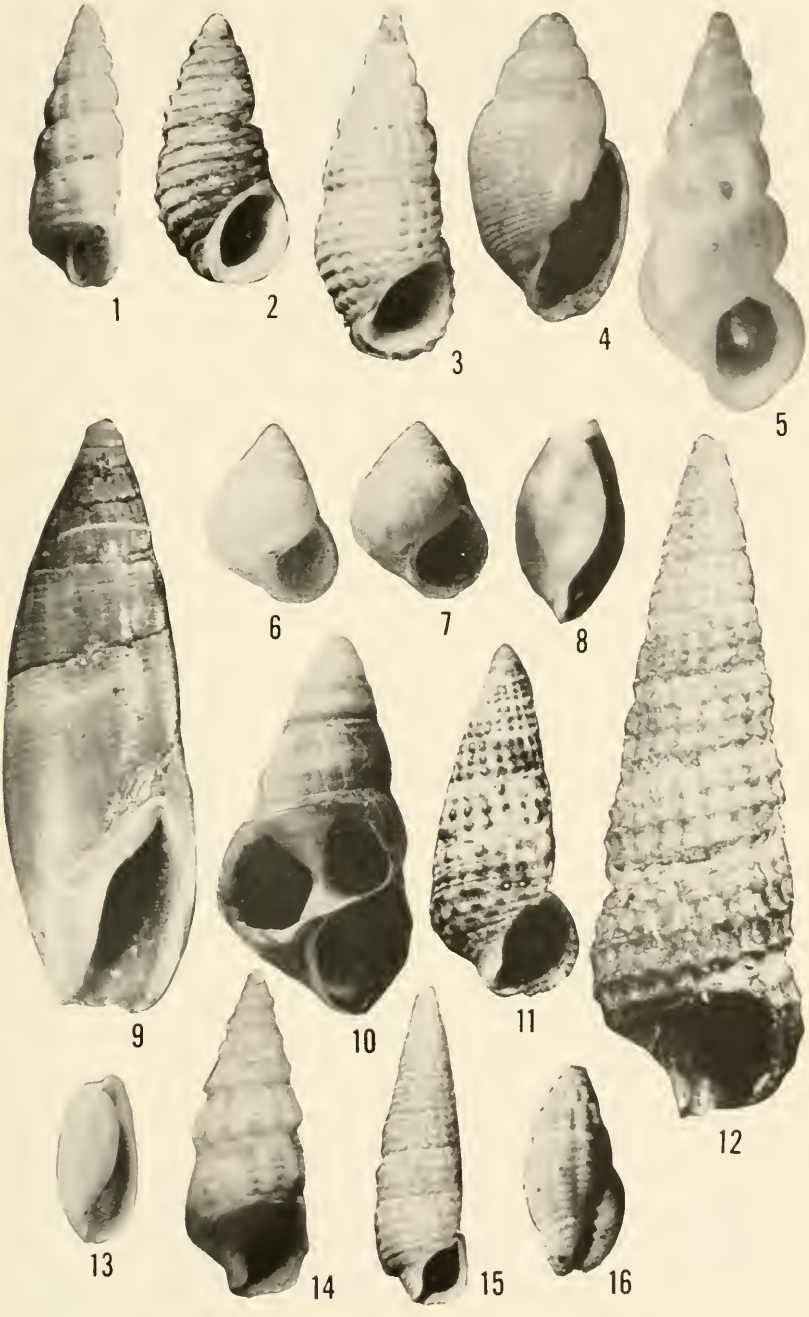
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PLATE 13

Fig. 1. *Triforis clathratus* Gould. China Seas. Holotype Redpath Mus. 5240. Height 5, width 2 mm. (16 x).

Fig. 2. *Triforis calculiferus* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype Redpath Mus. 5203. Height 8, width 2.5 mm. (12.5 x).

Fig. 3. *Triforis interfilatus* Gould. Hong Kong Harbor [China]. Lectotype Redpath Mus. 5221. Height 12, width 2.5 mm. (9.8 x).

Fig. 4. *Triforis intercalaris* Gould. China Seas. Holotype Redpath Mus. 5222. Height 6, width 1.5 mm. (15 x).

Fig. 5. *Mangelia pura* Gould. Hong Kong Harbor [China]. Lectotype USNM 24246, original no. 436. Height 7, width 2.2 mm. (7.3 x).

Fig. 6. *Cerithium placidum* Gould. China Seas. Lectotype USNM 24137, original no. 443. Height 6.2, width 2 mm. (12.8 x).

Fig. 7. *Rissoina modesta* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 1040. Height 4.8, width 2 mm. (7.5 x).

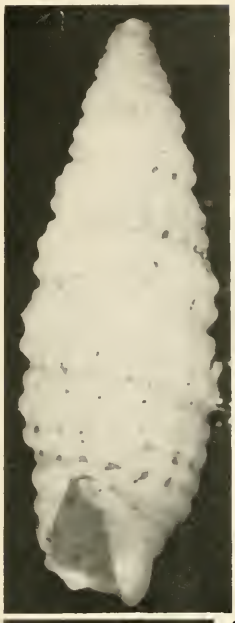

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Plate 14

Fig. 1. *Cingula* "(?)" *atomaria* Gould. China Seas. Holotype USNM 24181, original no. 386. Height .9, width .6 mm. (approx. 30 x).

Fig. 2. *Cythara lota* Gould. China Seas. Lectotype USNM 413. Length 4.5, width 2.6 mm. (9.2 x).

Fig. 3. *Monilea nana* Gould. China Coral Seas. Lectotype USNM 384. Height 1.7, width 2.6 mm. (9.2 x).

Fig. 4. *Monilea apicina* Gould. Port Jackson [New South Wales, Australia]. Holotype USNM 24169, original no. 346. Height 5, width 6 mm. (5 x).

Fig. 5. *Rissoina tornatilis* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype USNM 1036. Height 3.6, width 1.4 mm. (10.3 x).

Fig. 6. *Trophon incomptus* Gould. Hakodadi [Hakodate, Japan]. Lectotype USNM 1659. Height 15, width 7.5 mm. (8.3 x). [Prepared with ammonium chloride.]

Fig 7. *Collonia lenticula* Gould. China Seas. Holotype USNM 24196, original no. 400. Height 4, width 2 mm. (20 x).

Fig. 8. *Columbella decolor* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 24193, original no. 1132. Height 8, width 3.3 mm. (5.1 x).

Fig. 9. *Elenchus ocellatus* Gould. Sydney, New South Wales [Australia]. Holotype USNM 24206, original no. 300. Height 11, width 5.2 mm. (5.3 x).

Fig. 10. *Cyclostrema modestum* Gould. Hong Kong [China]. Lectotype USNM 24107, original no. 448. Height 2.6, width 4 mm. (10 x).

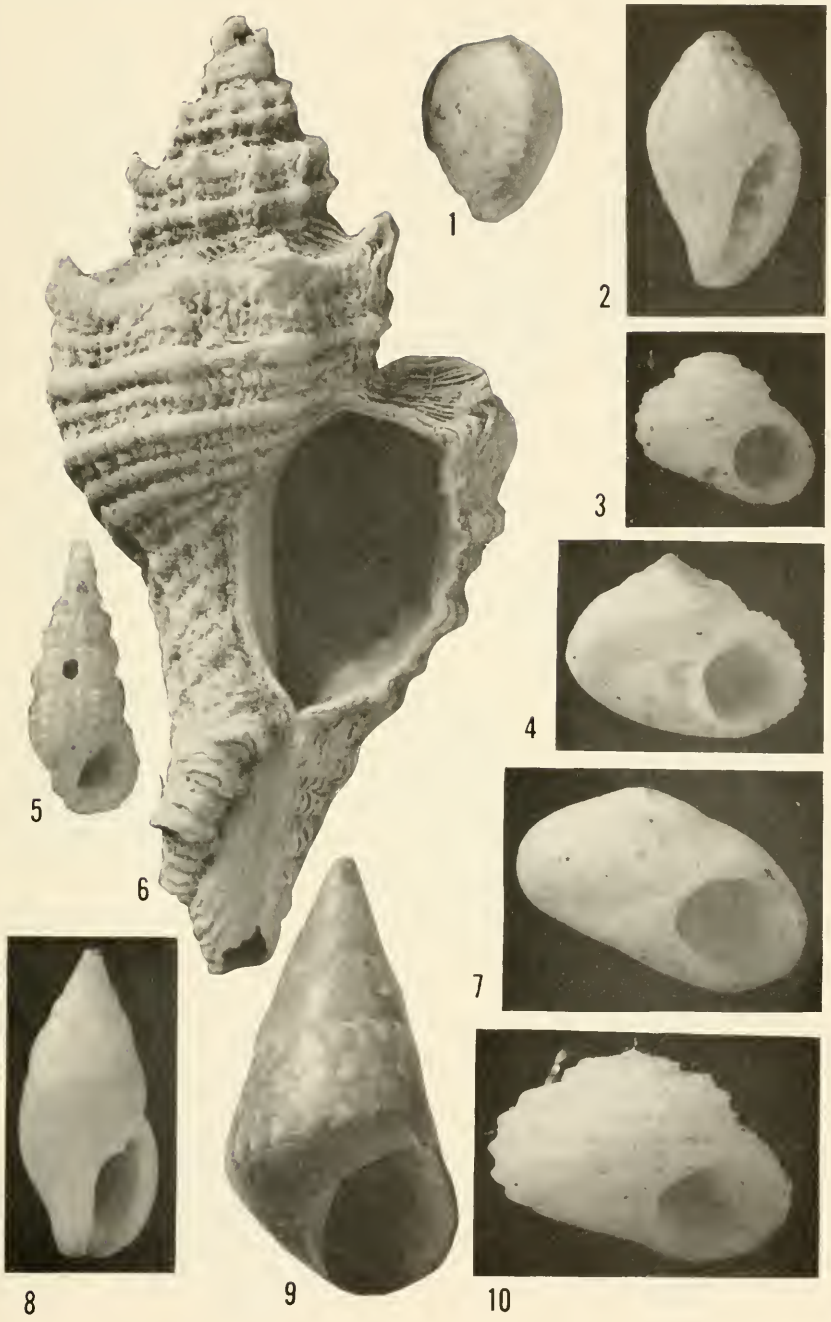
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PLATE 15

Fig. 1. *Rissoina trochlearis* Gould. China Seas. Lectotype USNM 661. Height 3.8, width 1.9 mm. (10 x).

Fig. 2. *Rissoina nitidula* Gould. China Seas. Holotype USNM 24071, original no. 568. Height 5, width 2 mm. (10 x).

Fig. 3. *Rissoina flexuosa* Gould. Sydney Harbor [New South Wales, Australia]. Lectotype USNM 24076, original no. 286. Height 5, width 2 mm. (11.6 x).

Fig. 4. *Rissoina imbricata* Gould. China Seas. Holotype USNM 37350. Height 7, width 3 mm. (8.7 x).

Fig. 5. *Rissoina plicatula* Gould. Port Lloyd, Bonin Islands; Loo Choo [Okinawa, Ryukyu Islands]; Kikaia [Kikaigashima, Ryukyu Islands]. Holotype USNM 947. Height 6, width 3 mm. (6.3 x).

Fig. 6. *Syronola subula* Gould. China Seas. Lectotype USNM 563. Height 1.5, width 1 mm. (12.8 x).

Fig. 7. *Ringicula doliaris* Gould. Hakodadi [Hakodate] Bay [Japan], 6 fathoms. Holotype USNM 1692. Height 5, width 3 mm. (6.4 x).

Fig. 8. *Ringicula denticulata* Gould. Port Jackson, New South Wales [Australia]. Holotype USNM 471. Height 5, width 3.5 mm. (6 x)

Fig. 9. *Ringicula arctata* Gould. Hong Kong Harbor [China]. Holotype USNM 567. Height 4, width 3 mm. (7 x).

Fig. 10. *Trochus* [*Euchelus*] *gemmatus* Gould. Sandwich [Hawaiian] Islands. Lectotype MCZ 169167. Height 17, width 20 mm. (2 x).

Fig. 11. *Trochus* [*Collonia*] *verruca* Gould. Sandwich [Hawaiian] Islands. Lectotype MCZ 169421. Height 4, width 3.5 mm. (10 x).

Fig. 12. *Turbonilla ornata* Gould. Hong Kong Harbor [China]. Holotype USNM 556. Height 6.7, width 1.5 mm. (5.8 x).

Fig. 13. *Trochus* [*Osilinus*] *pyriformis* Gould. San Diego [California]. Holotype MCZ 169435. Height 36, width 30 mm. (1.5 x).

Fig. 14. *Ziziphinus actutus* Gould. Eastern Coral Seas. Lectotype USNM 24157, original no. 414. Height 5, width 4 mm. (6.4 x).

Fig 15. *Turitella gracillima* Gould. Kagos[h]ima Bay [Japan]. Holotype USNM 2027. Height 20, width 4 mm. (4.1 x).

Fig. 16. *Tornatina apicina* Gould. Sydney Harbor [New South Wales, Australia]. Holotype USNM 284. Height 5, width 2 mm. (4.6 x).

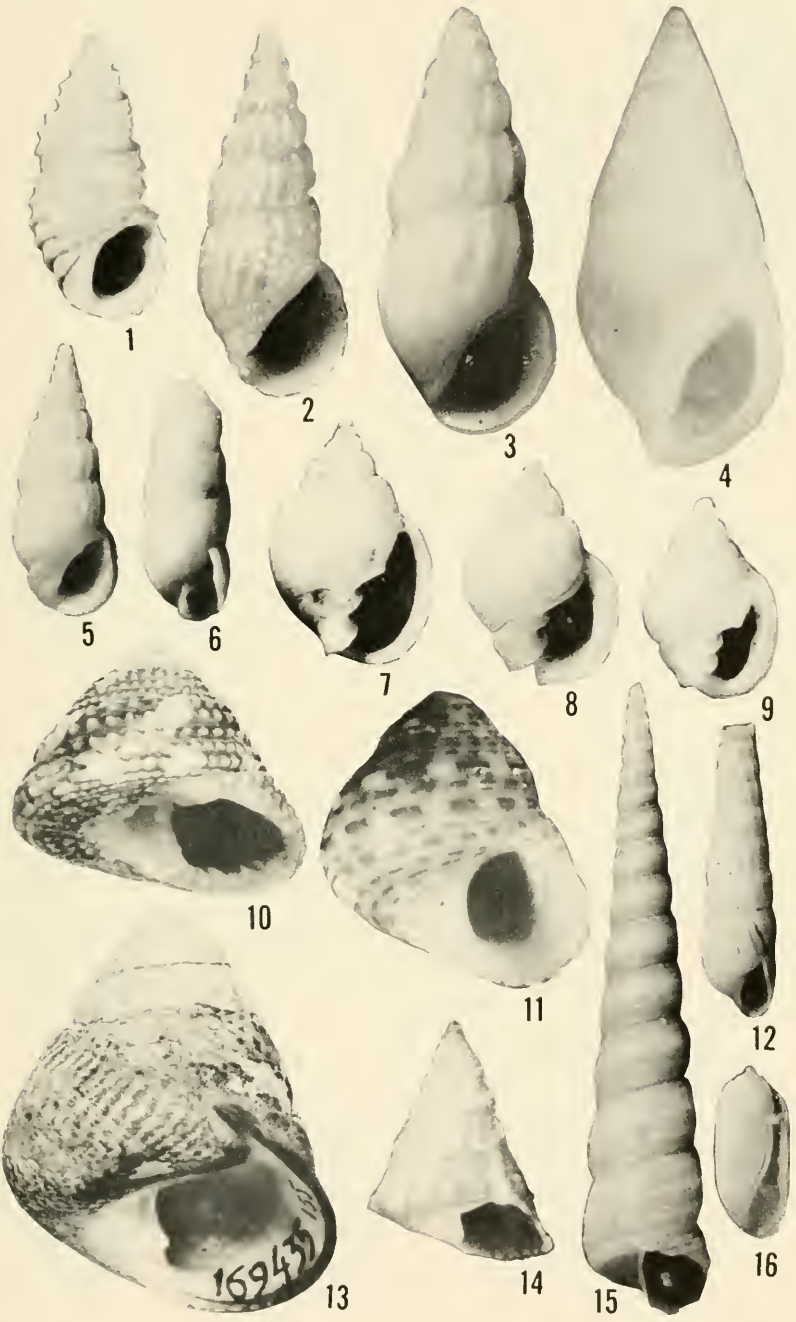
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Plate 16

Fig. 1. *Nassa dermestina* Gould. Kikaia [Kikaigashima, Ryukyu Islands]. Holotype USNM 24166, original no. 1535. Height 8, width 4 mm. (5 x).

Fig. 2. *Nassa mustelina* Gould. Ousima [Amami-O-shima, Ryukyu Islands], in 2 fathoms. Holotype USNM 24200, original no. 1554. Height 12, width 8 mm. (3 x).

Fig. 3. *Nassa quantula* Gould. Simon's Bay [Cape of Good Hope]. Holotype USNM 244. Height 7, width 3 mm. (5 x).

Fig. 4. *Nassa optata* Gould. Sydney Harbor [New South Wales, Australia]. Lectotype MCZ 169270. Height 10, width 5 mm. (3.4 x).

Fig. 5. *Nassa beata* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 2018. Height 10, width 6 mm. (5.5 x).

Fig. 6. *Nassa plebecula* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Lectotype USNM 24168, original no. 1548. Height 11.1, width 5.5 mm. (5 x).

Fig. 7. *Nassa spurca* Gould. Simon's Bay [Cape of Good Hope]. Holotype USNM 1661. Height 10, width 6 mm. (5.5 x).

Fig. 8. *Neptunia arata* Gould. Hab.? Holotype USNM 36723. Height 23, width 10 mm. (2 x).

Fig. 9. *Narica ovoidea* Gould. [Mazatlan, Mexico.] Holotype MCZ 169273. Height 8, width 5 mm. (3.4 x).

Fig. 10. *Nerita pica* Gould. S[h]imoda [Japan]. Lectotype USNM 1616. Height 20, width 20 mm. (1.3 x).

Fig. 11. *Neritella* [(*Clithon*)] *penicillata* Gould. New Ireland [Bismarck Archipelago]. Holotype USNM 664. Height 15, width 10 mm. (2 x).

Fig. 12. *Natica* [*Lunatia*] *puerilis* Gould. Port o Praya [Praia, Cape Verde Islands]. Lectotype USNM 177893. Height 10, width 8 mm. (2 x).

Fig. 13. *Natica* [*Lunatia*] *caurina* Gould. Straits of [Juan]de Fuca [Washington]. Lectotype MCZ 169081. Height 14, width 12 mm. (2.7 x).

Fig. 14. *Natica* [*Lunatia*] *severa* Gould. Hakodadi [Hakodate] Bay [Japan]. Holotype MCZ 169369. Height 38, width 35 mm. (1.5 x).

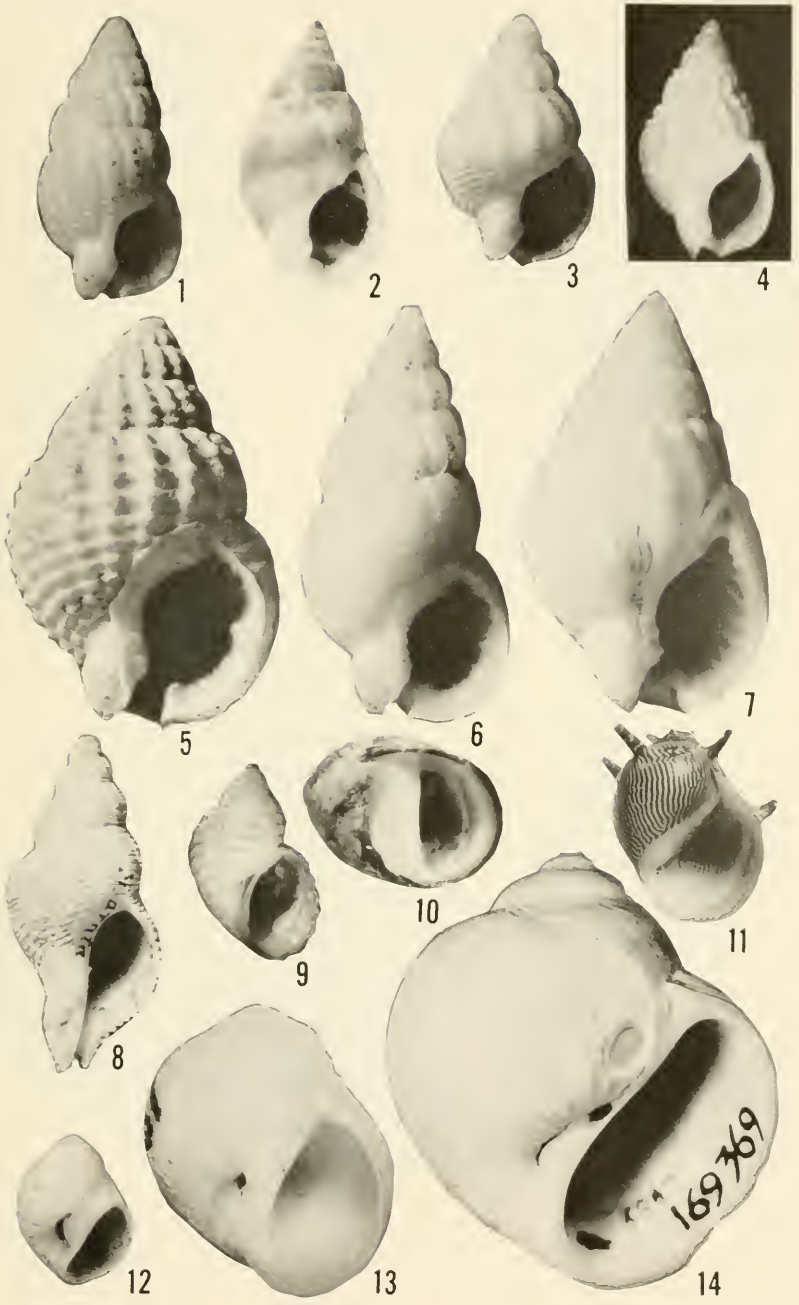
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PLATE 17

Fig. 1. *Truncatella rostrata* Gould. Rio de Janeiro [Brazil—locality probably incorrect] Lectotype MCZ 169343. Height 5, width 2.3 mm. (14 x).

Fig. 2. *Velutina* [*Morvillia*] *zonata* Gould. Chelsea Beach and off Cape Ann [Massachusetts]. Lectotype MCZ 225211. Height 9, width 8 mm. (8.5 x).

Fig. 3. *Turbo amussitatus* Gould. S[h]imoda [Japan]. Lectotype MCZ 216592. Height 13, width 10 mm. (6.3 x).

Fig. 4. *Tectarius luteus* Gould. China Seas. Lectotype MCZ 169232. Height 5, width 3.1 mm. (13 x).

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PLATE 18

Fig. 1. *Ziziphinus infuscatus* Gould. Kagos[h]ima Bay [Japan]. Holotype USNM 1348. Height 18, width 9 mm. (2.1 x).

Fig. 2. *Turbo nocturnus* Gould. S[h]imoda [Japan]. Holotype USNM 2408. Height 7, width 7 mm. (10 x).

Fig. 3. *Ziziphinus urbanus* Gould. Kagos[h]ima Bay [Japan]. Holotype USNM 24248. Height 6, width 5mm. (5.5 x).

Fig. 4. *Nematura puncticulata* Gould. Tavoy [Burma]. Holotype MCZ 169321. Height 4.5, width 2.2 mm. (13.8 x).

Fig. 5. *Neritina porcata* Gould. [Fiji Islands.] Lectotype MCZ 169307. Height 19, width 14 mm. (4 x).

Fig. 6. *Emarginula* [*Clypodina*] *textilis* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Holotype USNM 24112. Length 9, height 4, width 7 mm (5.5 x).

Fig. 7. *Emarginula* [*Clypidina*] *radiata* Gould. Sydney Harbor [New South Wales, Australia]. Holotype USNM 266. Length 12, height 7, width 8 mm. (5.5 x)

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PLATE 19

Fig. 1. *Patella grata* Gould. North shore of Niphon [Japan]. Lectotype USNM 1965. Height 14, length 27, width 22 mm. (2 x).

Fig. 2. *Carinaria cornucopia* Gould. Taken at sea, south of the Caroline Islands. Holotype USNM 24126, original no. 1506. Height 10, width 9 mm. (2.5 x).

Fig. 3. *Patella grata* Gould. North shore of Niphon [Japan]. Lectotype USNM 1965. Height 14, length 27, width 22 mm. (2 x).

Fig. 4. *Odostomia obtusa* Gould. Port Lloyd, Bonin Islands. Holotype USNM 950. Height 2.2, width .9 mm. (approx. 22 x).

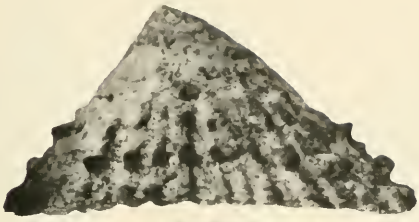
Fig. 5. *Chemnitzia iota* Gould. [Port Jackson, New South Wales, Australia.] Holotype USNM 389. Height 2.4, width .7 mm. (approx. 22 x).

Fig. 6. *Acmaea dorsuosa* Gould. Hakodadi [Hakodate, Japan]. Lectotype USNM 1631. Height 13, length 26, width 22 mm. (2 x).

Fig. 7. *Clanculus jucundus* Gould. Sydney, New South Wales [Australia]. Holotype USNM 24203, original no. 322. Height 5, width 5 mm. (5 x).

Fig. 8. *Emarginula* [*Clypidina*] *altilis* Gould. Kagos[h]ima Bay [Japan]. Lectotype USNM 24116. Height 4, length 4.5, width 3.8 mm. (5.8 x).

Fig. 9. *Acmaea dorsuosa* Gould. Hakodadi [Hakodate, Japan]. Lectotype USNM 1631 Height 13, length 26, width 22 mm. (2.1 x).



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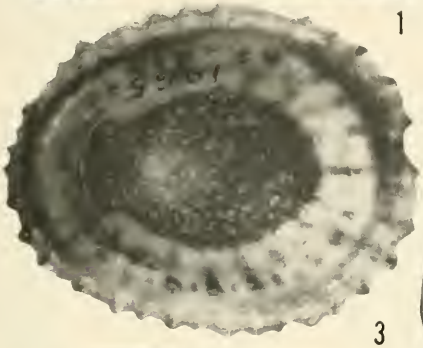

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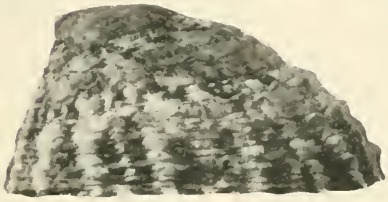

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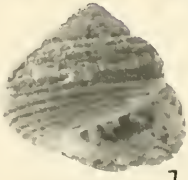

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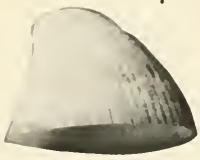

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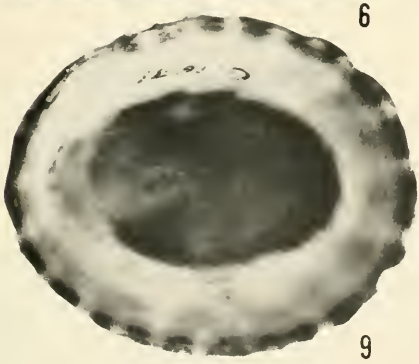

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PLATE 20

Fig. 1. *Buccinulus strigosus* Gould. Loo Choo [Okinawa, Ryukyu Islands] and Kago-s[h]ima [Japan]. Lectotype USNM 1311. Height 3.7, width 1.9 mm. (11.5 x).

Fig. 2. *Monilea vernicosa* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Holotype USNM 24177, original no. 1911. Height 4, width 5.5 mm. (10 x).

Fig. 3. *Turbonilla caelata* Gould. Hong Kong [China]. Holotype USNM 556. Height 6.7, width 1.7 mm. (5.9 x).

Fig. 4. *Mangelia semiassa* Gould. Hab.? Lectotype USNM 24194, original no. 2028. Height 10.2, width 5.2 (5 x).

Fig. 5. *Diloma verruca* Gould. Coral Seas, China. Lectotype USNM 420. Height 3, width 2.5 mm. (10.6 x).

Fig. 6. *Caecum gracile* Carpenter. China Seas. Holotype Redpath Mus. 4181. Height 2.2, width .3 mm. (approx. 55 x).

Fig. 7. *Gibbula lepida* Gould. New Ireland [Bismarck Archipelago]. Lectotype USNM 2045. Height 4.9, width 5 mm. (5.4 x).

Fig. 8. *Margarita lenticula* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 977. Height 2.6, width 4.9 mm. (10.4 x).

Fig. 9. *Gena dilecta* Gould. Hakodadi [Hakodate] Bay [Japan]. Holotype USNM 1695. Length 7.5, width 4, height 2.4 mm. (7.6 x).

Fig. 10. *Limnea* [*Lymnaea*] *lanceata* Gould. "Pic Lake," north shore of Lake Superior Lectotype MCZ 169216. Height 11, width 6 mm. (8.1 x).

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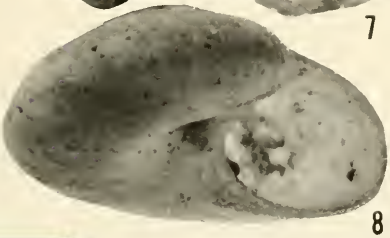
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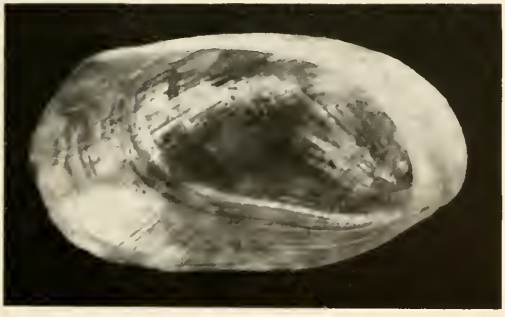
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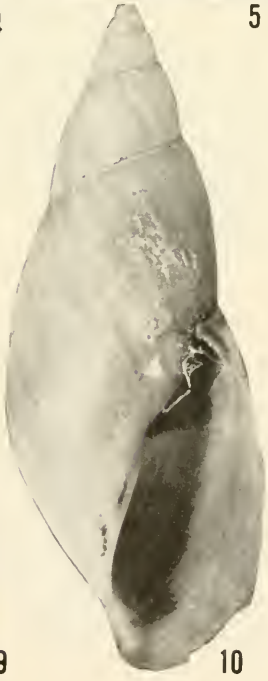
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PLATE 21

Fig. 1. *Scutellina unguiformis* Gould. Kagos[h]ima [Japan]. Holotype USNM 24124, original no. 2059. Height 1.5, length 6.2, width 5 mm. (8 x).

Fig. 2. *Scutellina unguiformis* Gould. Kagos[h]ima [Japan]. Holotype USNM 24124, original no. 2059. (5.3 x).

Fig. 3. *Emarginula pileata* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype USNM 24210. Height 3.5, length 4.8, width 3.8 mm. (7.5 x).

Fig. 4. *Scutellina scobinata* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Holotype USNM 24141, original no. 2124. Height 3.4, length 10, width 7 mm. (3.5 x).

Fig. 5. *Scutellina scobinata* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Holotype USNM 24141, original no. 2124. (2.7 x).

Fig. 6. *Modiolaria arcuata* Gould. Kagos[h]ima [Japan]. Holotype USNM 24065, original no. 1419 b. Height 2.8, length 5.2, width 3.8 mm. (10 x).

Fig. 7. *Stomatella concinna* Gould. Sandwich [Hawaiian] Islands. Holotype MCZ 169090. Height 4, width 5 mm. (9 x).

Fig. 8. *Pectin laetus* Gould. Hakodadi [Hakodate] Bay [Japan], 10 fathoms. Height 98, length 92, width 34 mm. ($\frac{7}{10}$ x).

Fig. 9. *Mangelia tetragona* Gould. China Seas. Lectotype USNM 24197, original no. 375. Height 5.1, width 1.7 mm. (4 x).

Fig. 10. *Odostomia scalarina* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 1033. Height 4.8, width 1.4 mm. (9.3 x).

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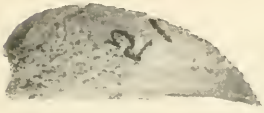

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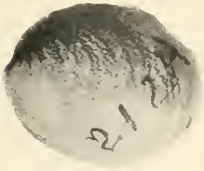

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PLATE 22

Fig. 1. *Chiton* (*Leptochiton*) *comptus* Gould. Ousima [Amami-O-shima], Bonin, and Loo Choo [Okinawa] [all Ryukyu Islands]. Holotype USNM 1562. Length 15, width 10 mm. (2 x).

Fig. 2. *Chiton* [*Lepidopleura*] *lepidus* Gould. China Seas: lat. 24° N. Lectotype USNM 1865. Length 11, width 6 mm. (5.5 x).

Fig. 3. *Chiton* [*Leptochiton*] *jacobaeus* Gould. S[h]imoda [Japan]. Holotype USNM 2078. Length 12, width 5 mm. (5.5 x).

Fig. 4. *Dentalium hexagonum* Gould. Hong Kong [China]. Holotype USNM 2053. Length 45, width 4 mm. (3.2 x).

Fig. 5. *Dentalium porcatum* Gould. Hong Kong [China]. Holotype MCZ 169304. Length 20, width 2.5 mm. (9 x).

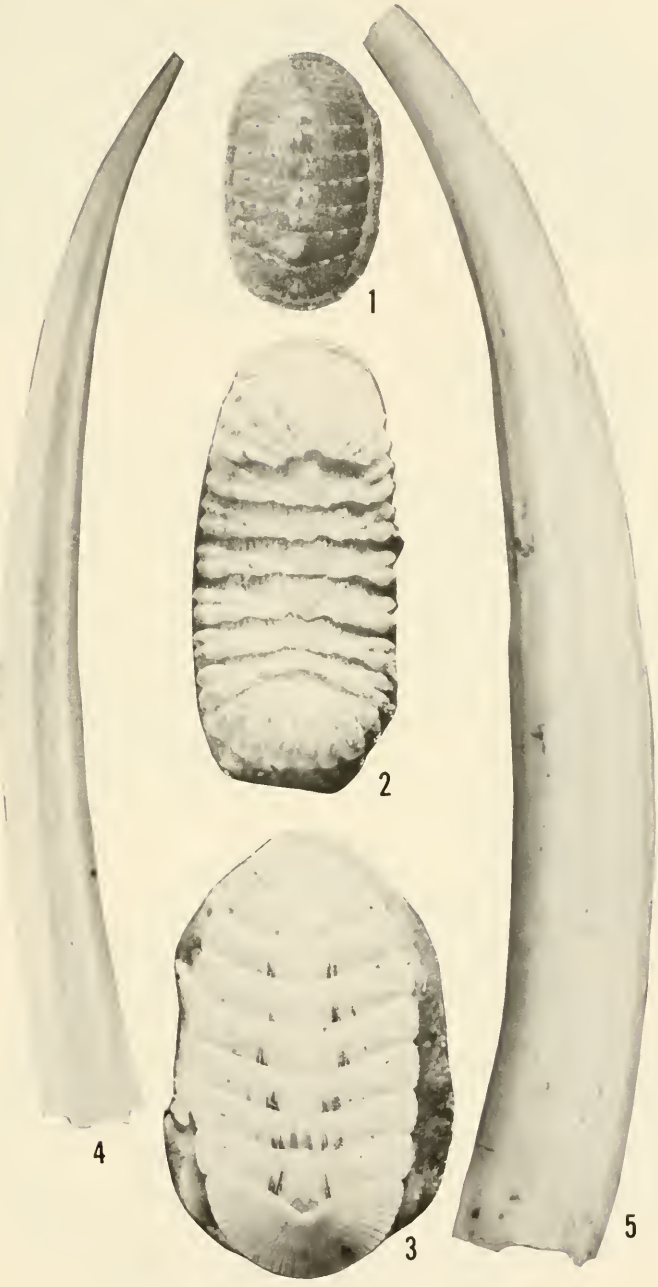
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PLATE 23

Fig. 1. *Modiolaria quadrula* Gould. Kagos[h]ima [Japan]. Holotype USNM 24064, original no. 1419. Length 5, height 3.4, width 3.6 mm. (10 x).

Fig. 2. *Ervilla livida* Gould. Kagos[h]ima Bay [Japan], 5 fathoms. Length 7, height 4, width 3 mm. (5.3 x).

Fig. 3. *Nucula* [*Yoldia*] *sapotilla* Gould. Provincetown Harbor [Massachusetts]. Lectotype MCZ 169354. Length 90, height 5, width 5 mm. (2 x).

Fig. 4. *Leda cuspidata* Gould. Hong Kong Harbor [China]. Lectotype Redpath Mus. 16265. Length 6.5, height 4, width 2.2 mm. (14 x).

Fig. 5. *Nucula* (*Acila*) *insignis* Gould. Off the east coast of Japan, lat. 37°, and Hakodadi [Hakodate, Japan]. Holotype USNM 1628. Length 15, height 12, width 8 mm. (2.1 x).

Fig. 6. *Corbula venusta* Gould. Hakodadi [Hakodate] Bay [Japan], 5-8 fathoms. Lectotype Redpath Mus. 15568. Length 9.5, height 7, width 4 mm. (9.8 x).

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PLATE 24

Fig. 1. *Psammobia tenella* Gould. Hong Kong Harbor [China], in 8 fathoms. Holotype USNM 518. Length 12, height 6, width 3 mm. (6 x).

Fig. 2. *Ervilia concentrica* Gould. Dredged off North Carolina. Lectotype MCZ 169092. Length 6.2, height 4, width 2 mm. (11 x).

Fig. 3. *Theora nitida* Gould. Hong Kong Harbor [China]. Holotype USNM 535. Length 15, height 8, width 5 mm. (5 x).

Fig. 4. *Tellina rubicunda* Gould. Liberia. Holotype MCZ 169346. Length 25, height 14, width 5 mm. (2.7 x).

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Plate 25

Fig. 1. *Tellina euglypta* Gould. Hab.? Holotype USNM 17867. Length 8, height 5, width 3 mm. (5 x).

Fig. 2. *Pholas* [*Zirphaea*] *patula* Gould. [Albay, Luzon,] Philippine Islands. Lectotype MCZ 187240. Length 60, height 41 mm. ($^9/_{10}$ x).

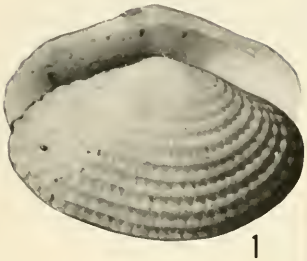
Fig. 3. *Tapes vernicosa* Gould. Hakodadi [Hakodate] Cape [Japan]. Lectotype MCZ 169420. Length 57, height 38, width 23 mm. (1.1 x).

Fig. 4. *Plicatula simplex* Gould. Kagos[h]ima Bay and S[h]imoda [Japan], 5–20 fathoms. Lectotype MCZ 169372. Length 18, height 13, width 6 mm. (2.3 x).

Fig. 5. *Theora lubrica* Gould. Hakodadi [Hakodate] Bay [Japan], 6 fathoms. Lectotype USNM 1685. Length 9, height 6, width 2 mm. (5 x).

Fig. 6. *Venus* (*Mercenaria*) *stimpsoni* Gould. Hakodadi [Hakodate, Japan], 6 fathoms. Holotype USNM 1592. Length 94, height 84, width 43 mm. ($^1/_5$ x).

Fig. 7. *Solemya pusilla* Gould. Hakodadi [Hakodate] Bay [Japan], 5 fathoms. Holotype USNM 24204, original no. 1679. Length 12, height 5 mm. (3.7 x).



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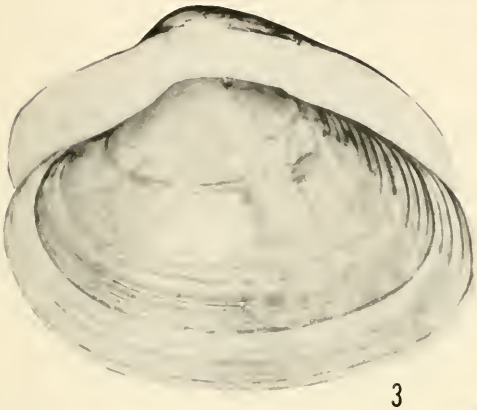

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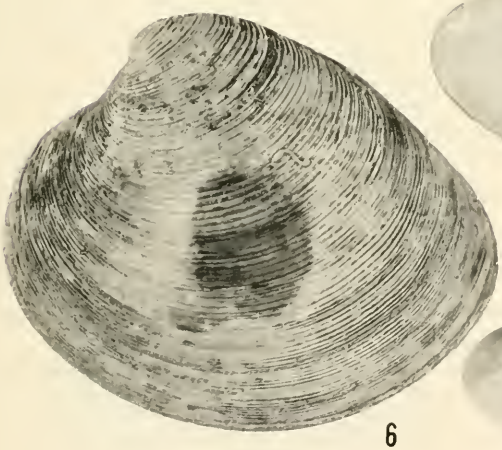

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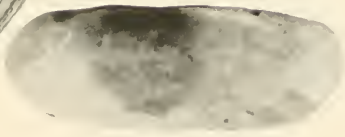

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PLATE 26

Fig. 1. *Modiola* [*Modiolaria*] *pectinula* Gould. St. George's Bank [off southern Massachusetts]. Lectotype MCZ 216574. Length 15, height 11, width 14 mm. (4 x).

Fig. 2. *Myadora fluctuosa* Gould. Kagos[h]ima Bay [Japan]. Holotype USNM 1313. Length 8, height 7, width 3 mm. (6 x).

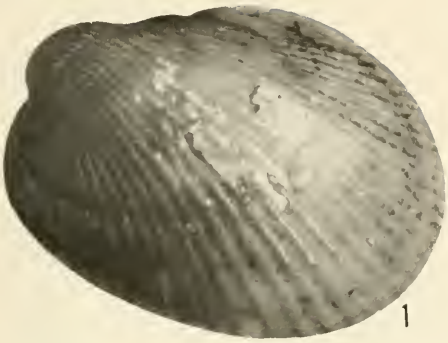
Fig. 3. *Mactra solidissima curta* Gould. Grand Manan Island [New Brunswick]. Holotype MCZ 225314. Length 82, height 69, width 40 mm. (¾ x).

Fig. 4. *Mysia figlina* Gould. Off the east coast of Japan, lat. 37°, 20 fathoms. Holotype USNM 1629. Length 18, height 16, width 6 mm. (2 x).

Fig. 5. *Mysia abbreviata* Gould. Hong Kong Harbor [China]. Holotype USNM 541. Length 20, height 17, width 12 mm. (2.1 x).

Fig. 6. *Mysia* (*Felania*) *usta* Gould. Hakodadi [Hakodate] Bay [Japan], 8 fathoms. Holotype USNM 1649. Length 30, height 27, width 15 mm. (2 x).

Fig. 7. *Thracia pusilla* Gould. S[h]imoda [Japan]. Holotype USNM 24060, original no. 2001. Length 8, height 5, width 4 mm. (5.5 x).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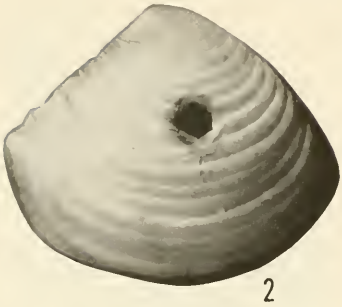
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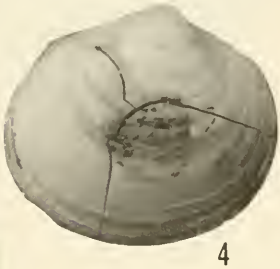
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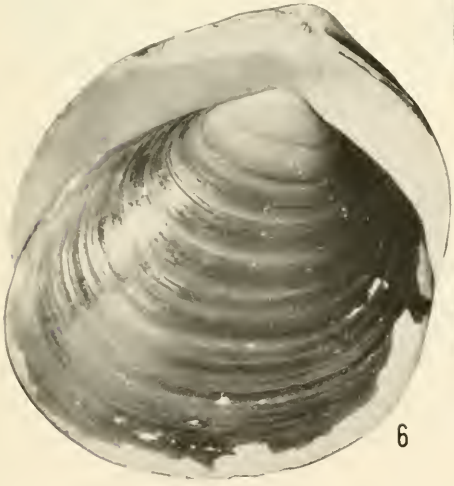
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PLATE 27

Fig. 1. *Macoma lunella* Gould. China Seas: lat. 24° N, 25 fathoms. Length 10, height 8, width 4 mm. (5.7 x).

Fig. 2. *Mytilus glomeratus* Gould. San Francisco [California]. Lectotype MCZ 169175. Length 10, height 8, width 5 mm. (7 x).

Fig. 3. *Lutraria* [*Mactrella*] *ventricosa* Gould. Mazatlan [Mexico]. Holotype MCZ 169451. Length 100, height 68, width 48 mm. (7/10 x).

Fig. 4. *Modiolaria cuprea* Gould. Kagos[h]ima Bay [Japan]. Holotype USNM 24066. Length 7, height 4.5, width 4 mm. (5.8 x).

Fig. 5. *Machaera sodalis* Gould. Hakodadi [Hakodate] Bay [Japan]. Lectotype USNM 1638. Length 42, height 20, width 7 mm. (2.1 x).

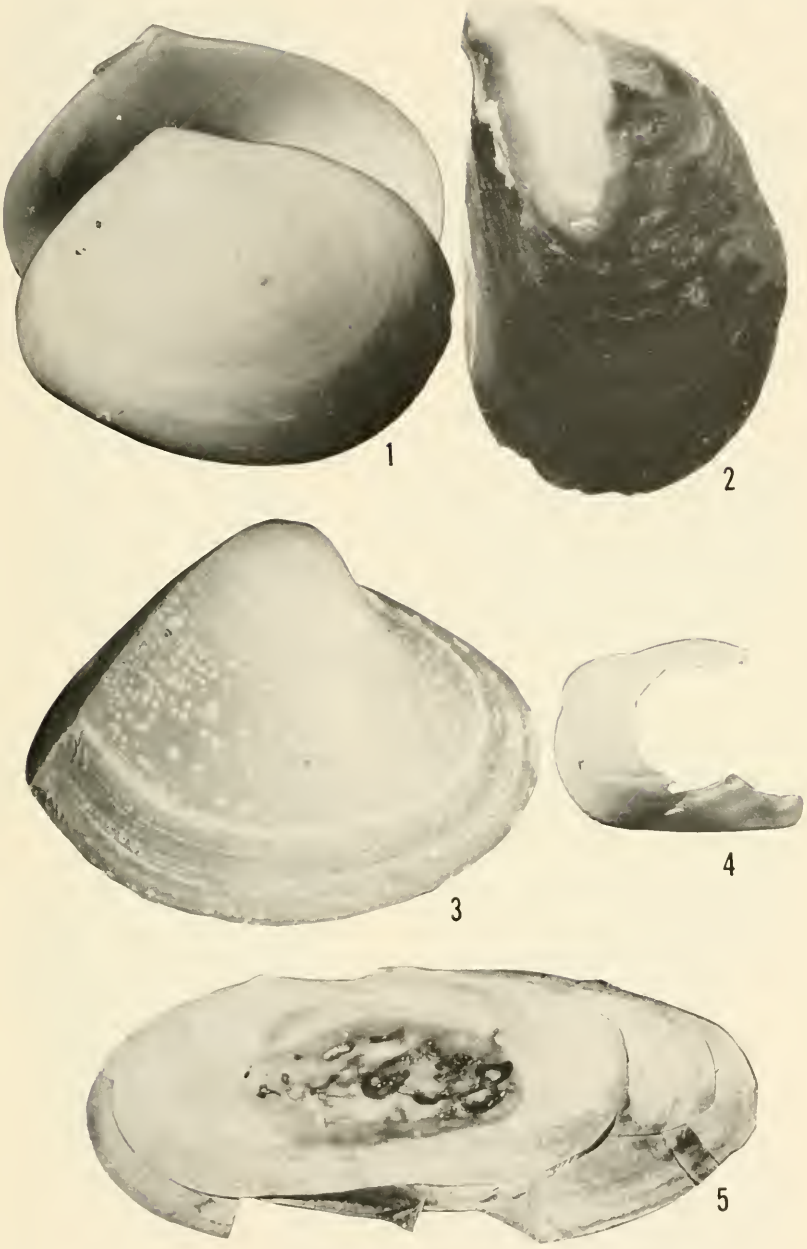
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Plate 28

Fig. 1. *Ervilia bisculpta* Gould. Kagos[h]ima [Japan], 5 fathoms. Holotype USNM 24068, original no. 1413. Length 6, height 4, width 3 mm. (5 x).

Fig. 2. *Leda unca* Gould. Frying-Pan Shoals [Cape Fear], North Carolina. Lectotype MCZ 169413. Length 6.5, height 4, width 3.8 mm. (10 x).

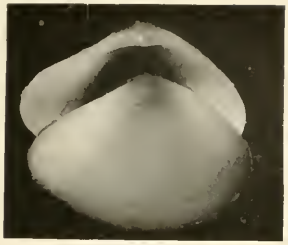
Fig. 3. *Lucina* [(*Myrtea*)] *seminula* Gould. Hong Kong Harbor [China], 5–10 fathoms. Lectotype USNM 553. Length 3, height 3, width 2 mm. (11 x).

Fig. 4. *Lepton concentricum* Gould. Sydney Harbor [New South Wales, Australia]. Holotype USNM 24306. Length 10, height 7.2, width 4.2 mm. (5.5 x).

Fig. 5. *Lucina* (*Codakia*) *parvula* Gould. [Port Lloyd,] Bonin Islands. Lectotype MCZ 169284. Length 5.3, height 4.9, width 2 mm. (10 x).

Fig. 6. *Mytilus coruscus* Gould. Hakodadi [Hakodate] Bay [Japan]. Length 65, height 38, width 25 mm. (1.2 x).

Fig. 7. *Lutraria lucida* Gould. Kagos[h]ima [Japan]. Lectotype USNM 1317. Length 38, height 19, width 8 mm. (1.5 x).



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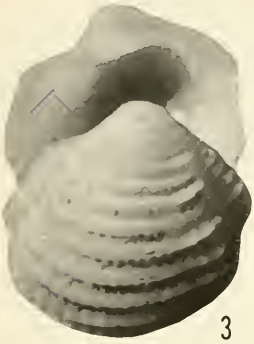

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PLATE 29

Fig. 1. *Donax flexuosus* Gould. Santa Barbara [California]. Lectotype MCZ 169144. Length 12, height 8, width 5 mm. (2.6 x).

Fig. 2. *Kellia bulla* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 24060. Length 8, height 6, width 6 mm. (5.5 x).

Fig. 3. *Kellia compacta* Gould. Hab.? Holotype USNM 24146, original no. 492. Length 6, height 5, width 3 mm. (5.7 x).

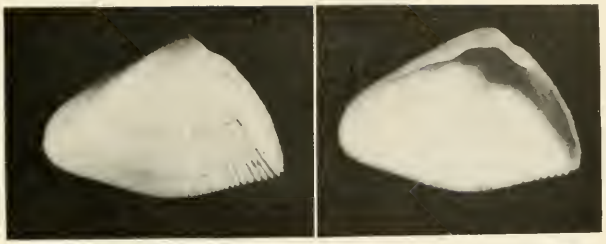
Fig. 4. *Gouldia dilecta* Gould. Kagos[h]ima, [Japan]. Holotype USNM 64077, original no. 1694. Length 5, height 4, width 2 mm. (10 x).

Fig. 5. *Chione roscida* Gould. Harbors of Ousima [Amami-O-shima, Ryukyu Islands], 15 fathoms. Holotype USNM 1896. Length 13, height 9, width 5 mm. (4 x).

Fig. 6. *Kellia undulata* Gould. Kagos[h]ima [Japan]. Lectotype USNM 1319. Length 5, height 4, width 2.6 mm. (5.1 x).

Fig. 7. *Amphidesma* [*Semele*] *flavescens* Gould. San Diego [California]. Holotype MCZ 169157. Length 58, height 54, width 31 mm. (1.1 x).

Fig. 8. *Kellia balaustina* Gould. Sydney Harbor [New South Wales, Australia]. Holotype USNM 24241, original no. 305. Length 2.5, height 2, width 1 mm. (11 x).



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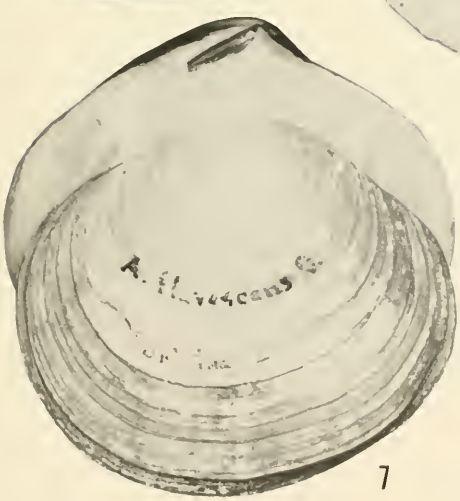

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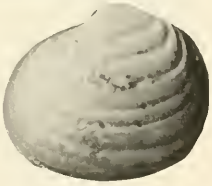

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PLATE 30

Fig. 1. *Ancylus gaulus* Gould. Cape of Good Hope. Lectotype USNM 24111. Length 5, height 2, width 3.1 mm. (10 x).

Fig. 2. *Astarte undata* Gould. [New England.] Lectotype MCZ 216819. Length 30, height 25, width 11 mm. (1.1 x).

Fig. 3. *Astarte quadrans* Gould. [Swampscott,] Massachusetts Bay. Lectotype MCZ 143295. Length 8, height 6.5, width 3 mm. (7 x).

Fig. 4. *Astarte castanea picea* Gould. Chelsea Beach [Massachusetts]. Lectotype MCZ 216818. Length 29, height 27, width 14 mm. (1.1 x).

Fig. 5. *Callista glandula* Gould. China Seas. Ideotype USNM 24725. Length 44, height 38, width 13 mm. (2 x).

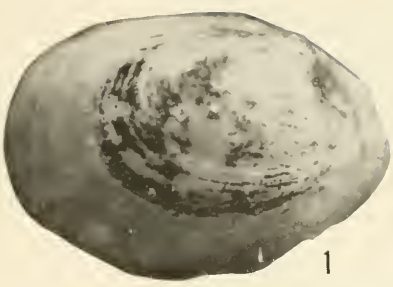

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PLATE 31

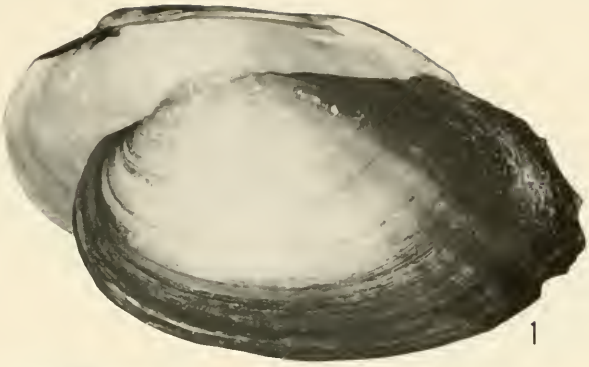
Fig. 1. *Unio lepidus* Gould. Lake Monroe, Florida. Lectotype MCZ 169223. Length 63, height 35, width 25 mm. (1.1 x).

Fig. 2. *Unio papyraceus* Gould. Everglades of Florida. Lectotype USNM 86125. Length 41, height 25, width 15.2 mm. (nat. size).

Fig. 3. *Unio paludicolus* Gould. Everglades of Florida. Lectotype MCZ 169278. Length 39, height 46, width 14 mm. (1.1 x).

Fig. 4. *Unio petrinus* Gould. Llanos River, Texas. Holotype MCZ 169291. Length 38, height 32, width 19 mm. (1.1 x).

Fig. 5. *Unio bracteatus* Gould. Llanos River, upper Texas. Lectotype USNM 84966. Length 54, height 30, width 15 mm. (nat. size).



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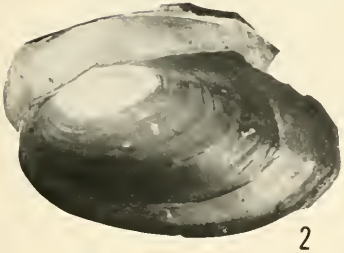

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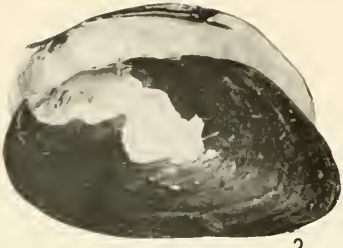

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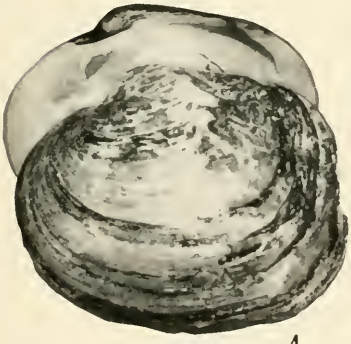

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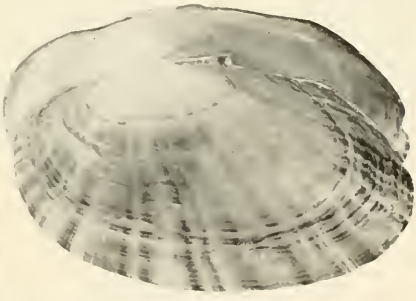

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PLATE 32

Fig. 1. *Anodonta insocularis* Gould. Salw[e]en River [Burma]. Lectotype USNM 86352 Length 64, height 42, width 25 mm. (1.1 x).

Fig. 2. *Unio crispata* Gould. [Tavoy, Burma.] Lectotype MCZ 169099. Length 20, height 10, width 15 mm. (1.1 x).

Fig. 3. *Unio coruscus* Gould. Saint John's River, near Lake Beresford, Florida. Holotype MCZ 169097. Length 35, height 20, width 15 mm. (1.1 x).

Fig. 4. *Unio tavoyensis* Gould. [Tavoy, Burma.] Lectotype MCZ 169389. Length 53, height 46, width 33 mm. (1.1 x).

Fig. 5. *Unio manubius* Gould. Chihuahua [State, Mexico]. Holotype MCZ 169477. Length 94, height 46, width 31 mm. (1.1 x).

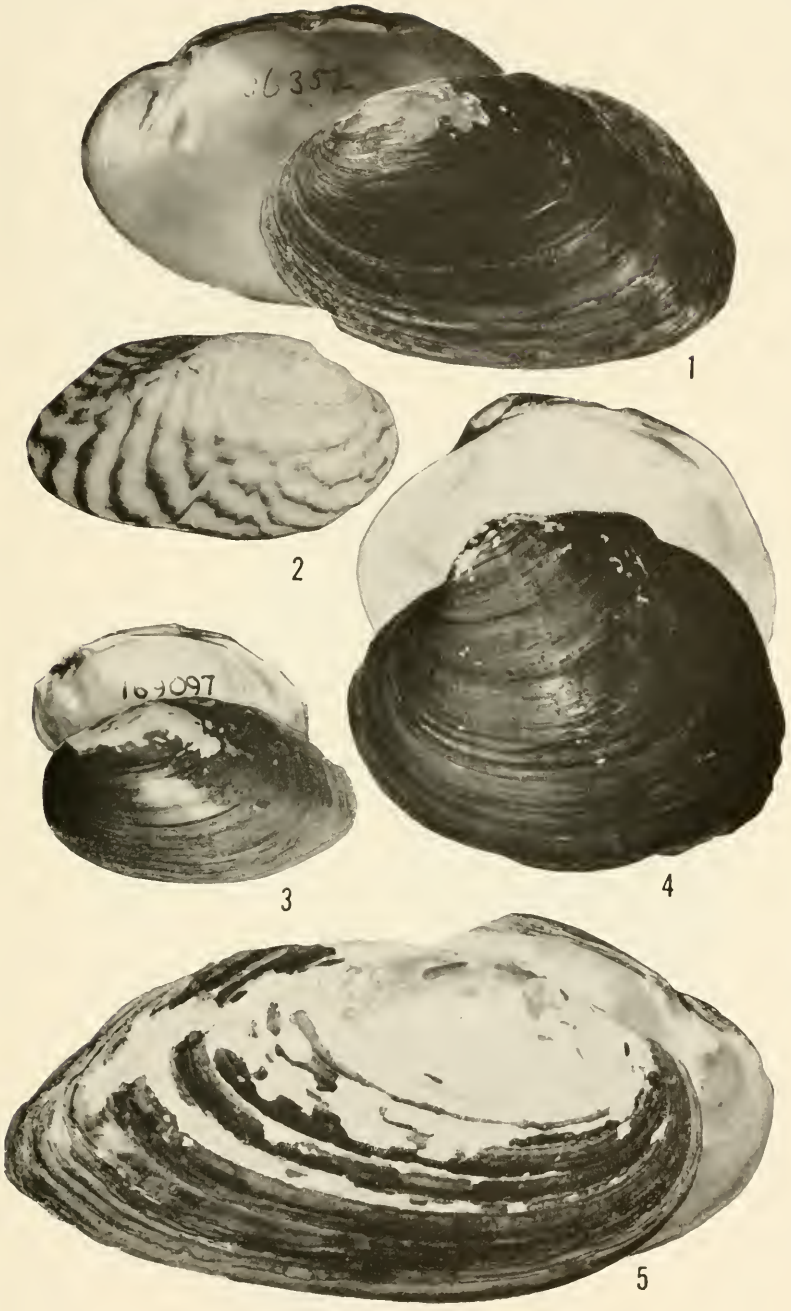
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PLATE 33

Fig. 1. *Unio generosus* Gould. Newville, [Province of] Tavoy [Burma]. Holotype MCZ 169449. Length 100, height 60, width 38 mm. (1.1 x).

Fig. 2. *Unio exolescens* Gould. [Tavoy, Burma.] Lectotype USNM 85473. Length 68, height 30, width 15 mm. (nat. size).

Fig. 3. *Unio foliacea* Gould. [Tavoy, Burma.] Lectotype USNM 84161. Length 41, height 23, width 13 mm. (nat. size).

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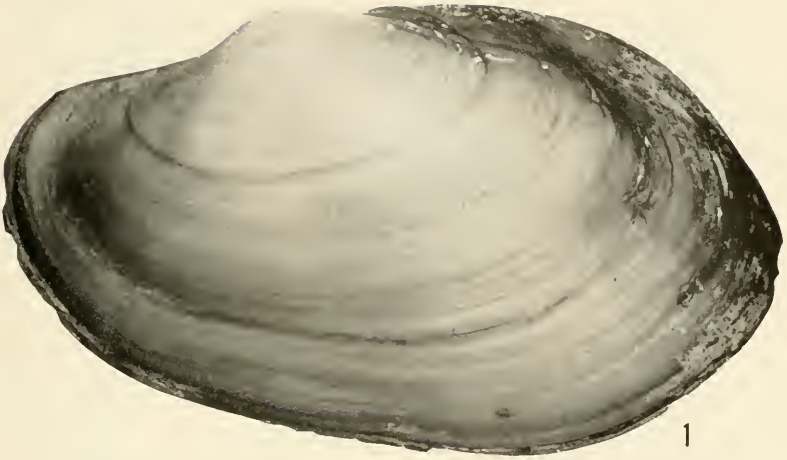
PLATE 34

Fig. 1. *Anodon*[*ta*] *ciconia* Gould. "Mexico?" Holotype MCZ 169048. Length 109, height 62, width 38 mm. (nat. size).

Fig. 2. *Anodon*[*ta*] *salweniana* Gould. Salw[e]en River [Burma]. Lectotype 169445. Length 89, height 58, width 30 mm. (1.1 x).



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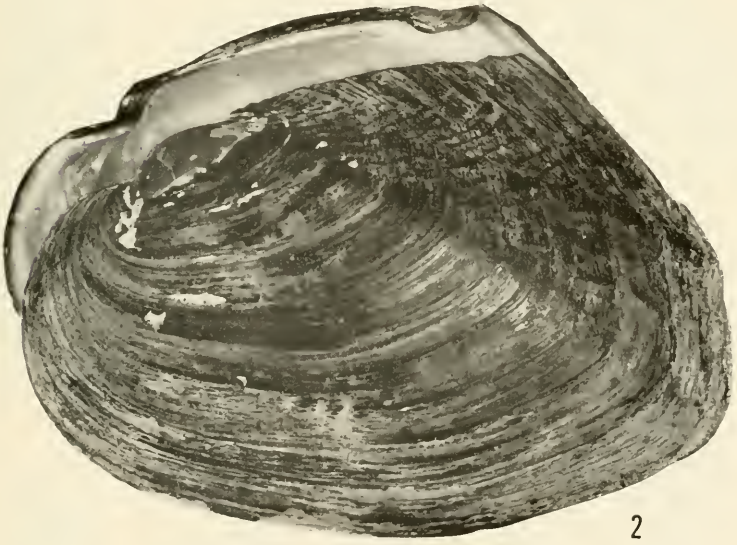

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PLATE 35

Fig. 1. *Amnicola cincta* Gould. Tenasserim River [Burma]. Lectotype American Mus. Nat. Hist. 65006. Height 1.9, width 1.2 mm. (approx. 25 x).

Fig. 2. *Philine vitrea* Gould. Hong Kong [China]. Holotype USNM 24077. Height 10, width 7.2 mm. (3.7 x).

Fig. 3. *Auricula* [*Leuconia*] *opportuna* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype MCZ 169269. Length 7, width 4 mm. (7.5 x).

Fig. 4. *Melania mutans* Gould. Cape Palmas, Liberia. Holotype MCZ 169255. Height 33, width 13 mm. (2.4 x).

Fig. 5. *Melania terpsichore* Gould. Fiji Islands. Lectotype MCZ 169397. Height 31, width 14 mm. (2 x).

Fig. 6. *Melania dolorosa* Gould. Streams near Hakodadi [Hakodate, Japan]. Holotype USNM 1663. Height 18, width 6 mm. (2.1 x).

Fig. 7. *Ampullaria balanoidea* Gould. Grand Cape Mount, Liberia. Lectotype MCZ 169054. Height 23, width 19 mm. (2 x).

Fig. 8. *Melania fluctosa* Gould. Newville, [Province of] Tavoy [Burma]. Holotype 169136. Height 15, width 7 mm. (3 x).

Fig. 9. *Melania gracilina* Gould. Tahiti [Society Islands]. Lectotype USNM 1953. Height 31, width 10 mm. (2 x).

Fig. 10. *Melania* [*Melanoides*] *herculea* Gould. Tavoy River [Burma]. Lectotype MCZ 169436. Height 60, width 37 mm. (1.4 x).

Fig. 11. *Melania batana* Gould. [Tavoy,] Burma. Lectotype MCZ 169057. Height 25, width 6 mm (2 x).

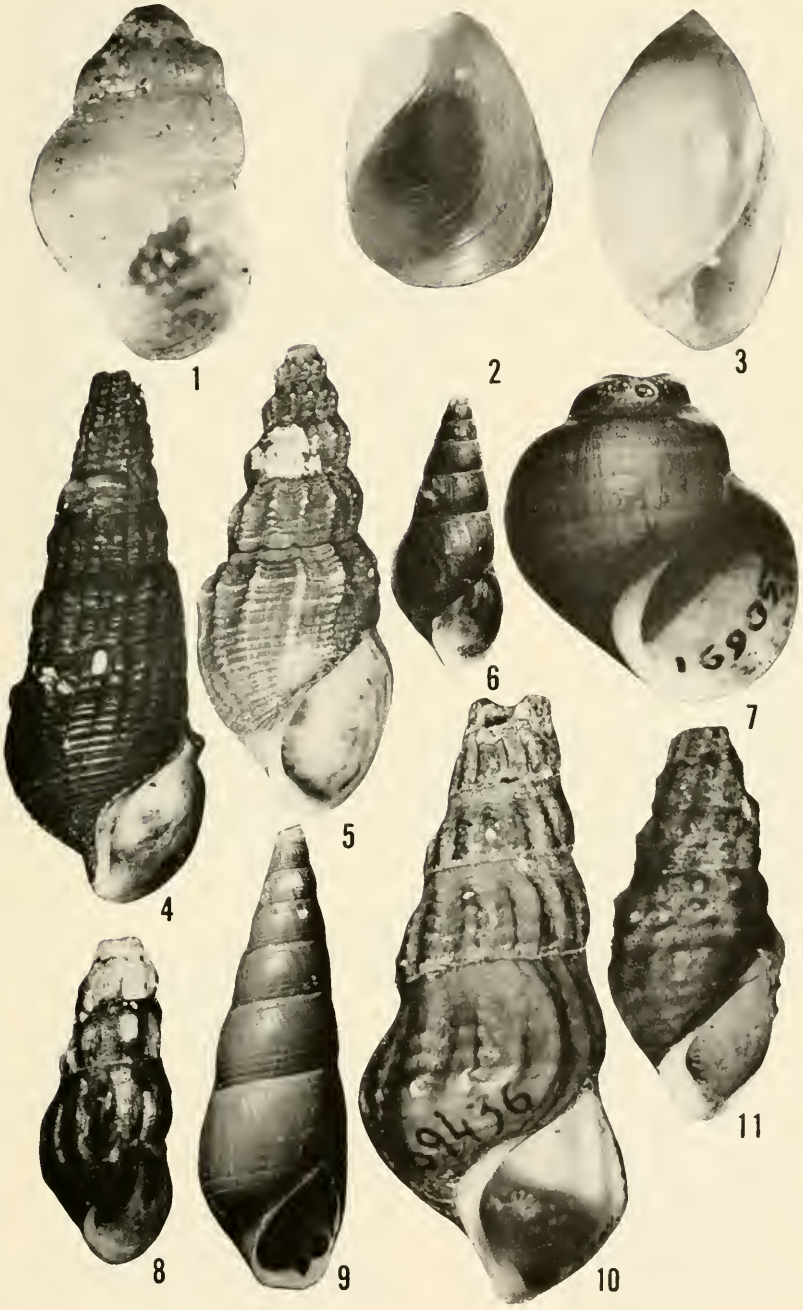
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PLATE 36

Fig. 1. *Pedicularia decussata* Gould. Off Georgia, 400 fathoms. Holotype MCZ 169118. Length 5.5, height 4 mm. (9.8 x).

Fig. 2. *Helix damascenus* Gould. Desert region east of California. Lectotype Cornell Univ. Paleo. Dept. 27244. Height 16, width 19 mm. (2 x).

Fig. 3. *Saxicava flaccida* Gould. Cape of Good Hope. Lectotype Redpath Mus. 15679. Length 10, height 7, width 6 mm. (5.3 x).

Fig. 4. *Helix bucculenta* Gould. Georgia to Texas. Presumed Holotype MCZ 169059. Height 15, width 22 mm. (2.1 x).

Fig. 5. *Segmentina lucida* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype USNM 24243, original no. 834. Height 1.5, width 3.3 mm. (6 x).

Fig. 6. *Segmentina lucida* Gould. Another view (10 x).

Fig. 7. *Helix aeruginosa* Gould. San Francisco, California. Lectotype MCZ 169046. Height 23, width 33 mm. (1.6 x).

Fig. 8. *Corilla pulvinaris* Gould. Hong Kong, China. Lectotype MCZ 169316. Height 7, width 19 mm. (2 x).

Fig. 9. *Clausilia insignis* Gould. [Tavoy, Burma.] Lectotype USNM 117120. Length 18.4, width 7.2 mm. (7.7 x). [Prepared with ammonium chloride.]

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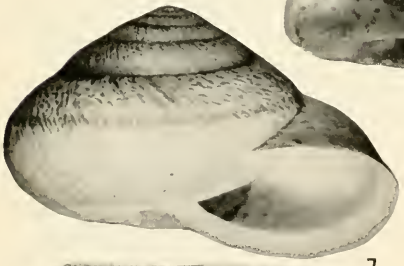
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PLATE 37

Fig. 1. *Helix hepatizon* Gould. Near the mouth of the Gaboon River, Liberia. Holotype MCZ 169183. Height 20, width 33 mm. (1.7 x).

Fig. 2. *Helix* (*Caracolla*) *anceps* Gould. [Tavoy, Burma.] Lectotype MCZ 169041. Height 11, width 20 mm. (2 x).

Fig. 3. *Helix* [*Corilla*] *repercussa* Gould. Mergui [Archipelago], Burma. Lectotype MCZ 169336. Height 6, width 27 mm. (1.5 x).

Fig. 4. *Helix indecorata* Gould. Liberia. Lectotype MCZ 11573. Height 7, width 11 mm. (6.3 x).

Fig. 5. *Helix talcosa* Gould. Cape Palmas [Liberia]. Lectotype MCZ 147678. Height 9, width 8 mm. (4 x).

Fig. 6. *Helix vultuosa* Gould. Arkansas, Texas, near Corpus Christi and Galveston. Lectotype MCZ 169431. Height 5, width 10 mm. (6.8 x).

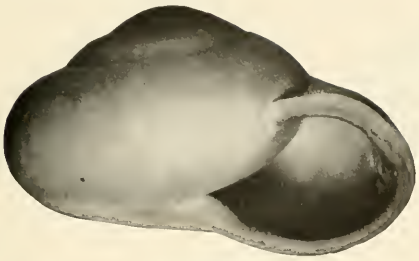
Fig. 7. *Helix* (*Caracolla*) *pellucida* Gould. Cape Palmas [Liberia]. Lectotype MCZ 87936. Height 11, width 20 mm. (1.7 x).

Fig. 8. *Helix infumata* Gould. San Francisco, California. Holotype MCZ 169195. Height 22, width 36 mm. (1.5 x).

Fig. 9. *Helix labiosa* Gould. Astoria and Fort George, on the Columbia River, Oregon. Possible Holotype MCZ 169210. Height 13, width 18 mm. (2.1 x).

Fig. 10. *Helix devia* Gould. Puget Sound [Washington]. Lectotype MCZ 169124. Height 14, width 21 mm. (2.1 x).

Fig. 11. *Helix cerea* Gould. Cape Palmas [Liberia]. Lectotype MCZ 155994. Height 4, width 5.9 mm. (8 x).



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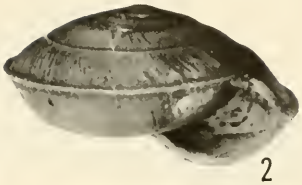

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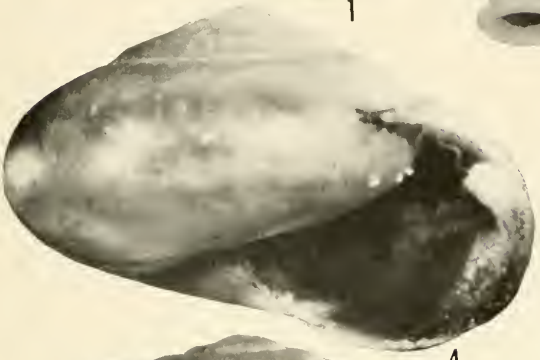

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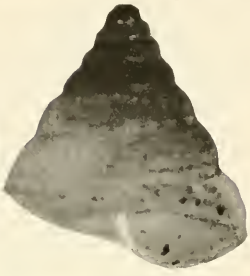

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Plate 38

Fig. 1. *Helix* [*Irus*] *tumulus* Gould. Fiji Islands. Lectotype MCZ 169408. Height 7, width 12 mm. (4 x).

Fig. 2. *Helix pauper* Gould. Kamtschatka [Kamchatka] Siberia. Lectotype MCZ 169258. Height 3, width 7 mm. (8 x).

Fig. 3. *Helix* [*Pitys*] *stellula* Gould. [Maui,] Sandwich [Hawaiian] Islands. Lectotype MCZ 169383. Height 4.5, width 1.7 mm. (8.5 x).

Fig. 4. *Helix honesta* Gould. Tavoy [Burma]. Lectotype MCZ 169185. Height 8, width 12 mm. (6.3 x).

Fig. 5. *Helix pupula* Gould. Hakodadi [Hakodate, Japan]. Lectotype MCZ 169529. Height 4, width 3 mm. (8.2 x).

Fig. 6. *Helix laeta* Gould. Hakodadi [Hakodate, Japan]. Lectotype USNM 24110. Height 16, width 19 mm. (2 x).

Fig. 7. *Helix labilis* Gould. Hakodadi [Hakodate, Japan]. Lectotype USNM 24209, original no. 1678. Height 27, width 4 mm. (8.8 x).

Fig. 8. *Helix* [*Corilla*] *anguina* Gould. Manko, near Newville, Tavoy [Burma]. Lectotype MCZ 169042. Height 24, width 22 mm. (1.7 x).

Fig. 9. *Helix* [*Corilla*] *refuga* Gould. Tavoy [Burma]. Holotype MCZ 169335. Height 6, width 19 mm. (1.9 x).

Fig. 10. *Helix* (*Caracolla*) *retrorsa* Gould. [Tavoy, Burma.] Lectotype MCZ 169330. Height 20, width 42 mm. (1.6 x).

Fig. 11. *Helix infrendens* Gould. [Tavoy, Burma.] Lectotype MCZ 169193. Height 6, width 10 mm. (6.5 x).

Fig. 12. *Helix* (*Streptaxis*) *petitii* Gould. Tavoy [Burma]. Holotype MCZ 169290. Height 8, width 9 mm. (4 x).

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PLATE 39

Fig. 1. *Pupa* (*Siphonostoma*) *lactaria* Gould. Mantanzas, Cuba. Lectotype MCZ 169212. Height 14, width 4 mm. (8 x).

Fig. 2. *Pupa* [*Macroceramus*] *pontifica* Gould. [Florida.] Lectotype MCZ 169301. Height 12, width 5mm. (8 x).

Fig. 3. *Pupa* [*Torquilla*] *mellita* Gould. Tavoy [Burma]. Lectotype MCZ 169240. Height 5.2, width 1.8 mm. (14.2 x).

Fig. 4. *Helix penicillata* Gould. Cuba. Lectotype MCZ 169289. Height 11, width 12 mm. (4 x).

Fig. 5. *Paxillus lyratus* Gould. Loo Choo Islands [Ryukyu Islands]. Lectotype MCZ 169235. Height 3.5, width 2 mm. (13x).

Fig. 6. *Clausilia vespa* Gould. Tavoy [Burma]. Holotype MCZ 169455. Height 24, width 9 mm. (3 x).

Fig. 7. *Helix* [*Hemiplecta*] *rubricata* Gould. Lebouka [Levuka], Fiji Islands. Lectotype MCZ 169347. Height 18, width 25 mm. (1.7 x).

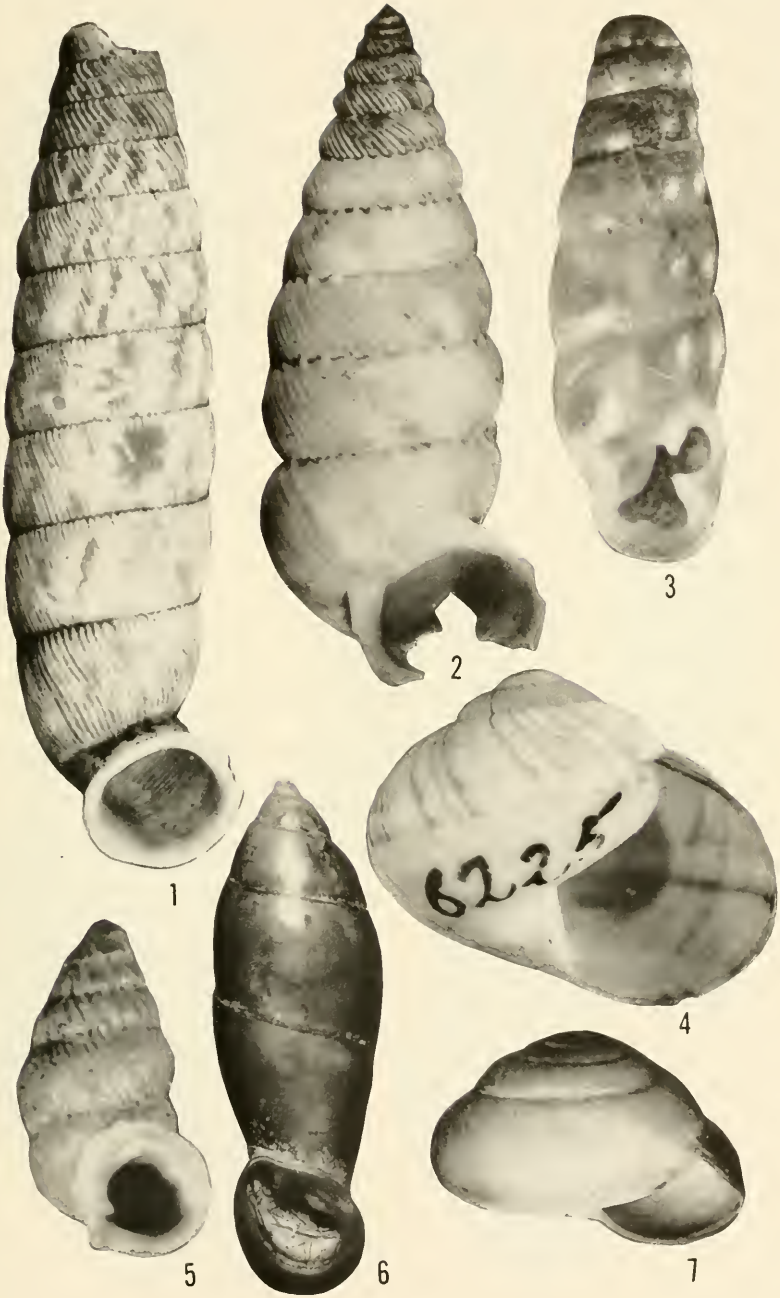
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PLATE 40

Fig. 1. *Pupa* [*Ennea*] *capitata* Gould. Cape Palmas, Liberia. Lectotype MCZ 169074. Height 13, width 6 mm. (5.4 x).

Fig. 2. *Pupa* [*Ennea*] *pumilio* Gould. Cape Palmas, Liberia. Lectotype MCZ 169319. Height 11, width 7 mm. (6 x).

Fig. 3. *Pupa* [*Veritgo*] *lyrata* Gould. [Oahu,] Hawaiian Islands. Holotype MCZ 169233. Height 2.7, width 1.6 mm. (approx. 30 x).

Fig. 4. *Cyclostoma* [*Megalomastoma*] *bicolor* Gould. Cuba. Lectotype MCZ 169070. Height 28, width 19 mm. (3.5 x).

Fig. 5. *Bulimus interstinctus* Gould. Cape Palmas, Liberia. Lectotype MCZ 169199. Height 44, width 20 mm. (1.5 x).

Fig. 6. *Pupa* [*Cylindrella*] *porrecta* Gould. Retiro, Cuba. Lectotype MCZ 169305. Height 12, width 2 mm. (11.4 x).

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Plate 41

Fig. 1. *Vitrina praestans* Gould. [Mergui,] Tavoy [Burma]. Lectotype MCZ 169308. Height 12, width 18 mm. (2 x).

Fig. 2. *Helicina glabra* Gould. Cuba. Lectotype MCZ 169172. Height 5, width 6 mm. (8 x).

Fig. 3. *Cyclostoma* [*Chondropoma*] *clathratum* Gould. Cuba, but specimen labeled "Socotora Island," [Gulf of Arden]. Lectotype MCZ 169087. Height 23, width 25 mm. (1.6 x).

Fig. 4. *Streptaxis prostrata* Gould. Cape Palmas and Rockbookay, 20 miles in the interior [Liberia]. Lectotype MCZ 169312. Height 6, width 9.5 mm. (6.2 x).

Fig. 5. *Cyclostoma* [*Cyclophorus*] *cucullata* Gould. Island in Mergui Archipelago [Burma]. Lectotype MCZ 169108. Height 6, width 27 mm. (1.6 x).

Fig. 6. *Achatinella microstoma* Gould. [Oahu,] Hawaiian Islands. Lectotype MCZ 196244. Height 18, width 9 mm. (2.4 x).

Fig. 7. *Achatinella nucleola* Gould. [Kauai,] Sandwich [Hawaiian] Islands. Lectotype MCZ 169265. Height 11, width 7 mm. (4 x).

Fig. 8. *Helicina verecunda* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 918. Height 5, width 6 mm. (6 x).

Fig. 9. *Cyclostoma* {*Cistula*] *catenatum* Gould. Cuba. Holotype MCZ 169073. Height 14, width 11 mm. (2.9 x).

Fig. 10. *Cyclostoma* [*Japonia*] *musivia* Gould. "probably Japan." Lectotype MCZ 169253. Height 4, width 4 mm. (9 x).

Fig. 11. *Bulimus infracinctus* Gould. Taboo and Fishtown, Liberia. Lectotype MCZ 169191. Height 17, width 10 mm. (2.3 x).

Fig. 12. *Clausilia praeclara* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Holotype USNM 1920. Height 25, width 6 mm. (2.2 x).

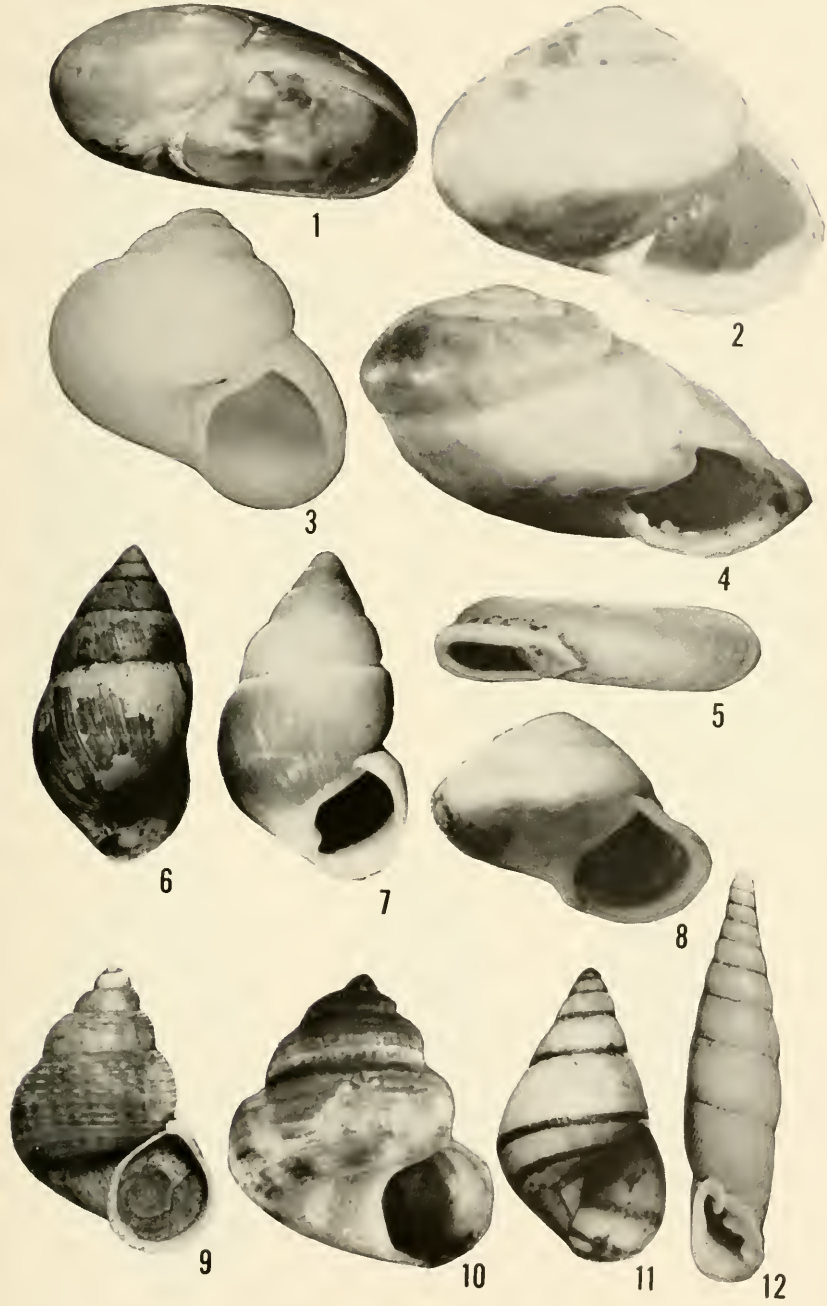
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PLATE 42

Fig. 1. *Achatina* [*Subulina*] *involuta* Gould. Cape Palmas, Liberia. Lectotype MCZ 169202. Height 24, width 5.5 mm. (4.4 x).

Fig. 2. *Vertigo nacca* Gould. Hawaii. Lectotype MCZ 169259. Height 2.2, width 1.2 mm. (approx. 30 x).

Fig. 3. *Achatina torrida* Gould. Cape Palmas, Liberia. Holotype MCZ 169446. Height 77, width 40 mm. (1.5 x).

Fig. 4. *Achatina paritura* Gould. Fishtown, Liberia. Lectotype MCZ 169282. Height 24, width 10 mm. (2.5 x).

Fig. 5. *Achatina balteata* Gould. Liberia. Lectotype MCZ 169055. Height 43, width 24 mm. (1.5 x).

Fig. 6. *Achatinella rubens* Gould. Sandwich [Hawaiian] Islands. Lectotype MCZ 169350. Height 22, width 12 mm. (2.5 x).

Fig. 7. *Achatinella fuliginosa* Gould. Sandwich [Hawaiian] Islands. Holotype MCZ 169154. Height 14, width 10 mm. (3.5 x).

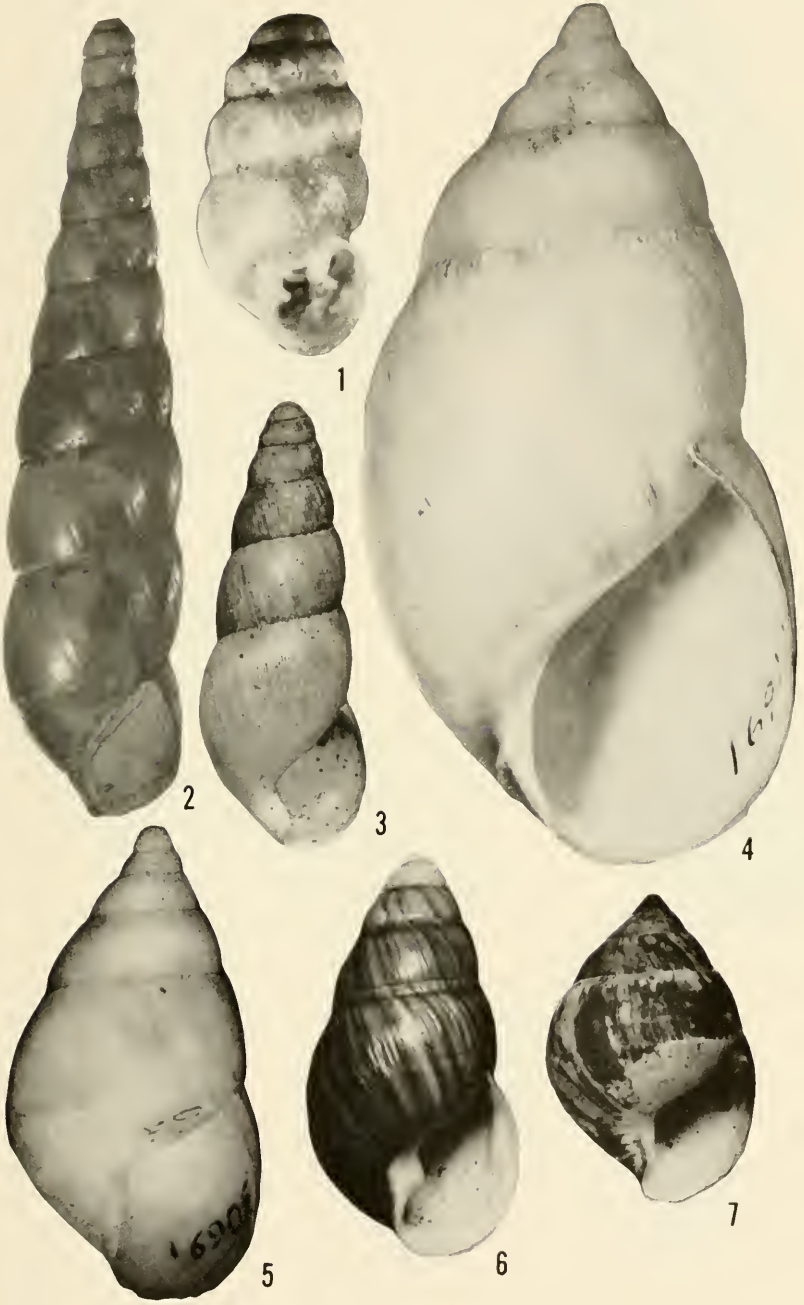

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PLATE 43

Fig. 1. *Succina semiserica* Gould. Tavoy [Burma]. Lectotype MCZ 169364. Height 13, width 9 mm. (5.4 x).

Fig. 2. *Valvata pupoidea* Gould. Fresh Pond, Cambridge, Massachusetts. Lectotype MCZ 169326. Height 2.2, width 1.5 mm. (approx. 30 x).

Fig. 3. *Paludina petrosa* Gould. Tavoy [Burma]. Lectotype MCZ 169292. Height 13, width 12 mm. (2.9 x).

Fig. 4. *Trichotropsis pusillus* Gould. Fishtown, Liberia. Lectotype MCZ 169324. Height 2.1, width 1.9 mm. (14 x).

Fig. 5. *Paludina histrica* Gould. Ousima [Amami-O-shima, Ryukyu Islands] and Loo Choo [Okinawa, Ryukyu Islands]. Lectotype USNM 1151, presumed to be from the former locality. Height 25, width 19 mm. (2.4 x).

Fig. 6. *Limnea ollula* Gould. Streams and marshes on Hong Kong Island [China]. Lectotype USNM 831. Height 7.5, width 4.3 mm. (6.4 x).

Fig. 7. *Succina lauta* Gould. Hakodadi [Hakodate, Japan]. Lectotype USNM 24129, original no. 1558. Height 18, width 7.5 mm. (2 x).

Fig. 8. *Succinea spurca* Gould. Liberia. Lectotype MCZ 169377. Height 6.5, width 4.2 mm. (8 x).

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Plate 44

Fig. 1. *Melania baccata* Gould. Thoungyin River [a branch of the Salween River, Burma]. Holotype MCZ 169052. Height 48, width 20 mm. (1.5 x).

Fig. 2. *Melania* [*Jo*] *pagodula* Gould. Thoungyin River, a branch of the Salwe[e]n [River, Burma]. Lectotype MCZ 169276. Height 47, width 22 mm. [not including spines]. (1.1 x).

Fig. 3. *Melania libertina* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Lectotype USNM 2120. Height 26, width 11 mm. (3.5 x).

Fig. 4. *Physa bullata* Gould. Oregon. Lectotype USNM 9170. Height 22, width 12 mm. (2 x).

Fig. 5. *Physa virgata* Gould. Gila River [Arizona] and near San Francisco [California]. Height 13, width 8 mm. (5.6 x).

Fig. 6. *Planorbis hirsuta* Gould. [Massachusetts.] Lectotype MCZ 216629. Height 1.8, width 5 mm. (8.2 x).

Fig. 7. *Planorbis spirillus* Gould. Ousima [Amami-O-shima, Ryukyu Islands]. Lectotype USNM 1577. Height 1.2, width 4 mm. (7 x).

Fig. 8. *Planorbis dentatus* Gould. San Jorge [Cuba]. Lectotype MCZ 169121. Height 1.2, width 4 mm. (11 x).

Fig. 9. *Physa elata* Gould. Lower California. Lectotype MCZ 169130. Height 21, width 11 mm. (3.5 x).

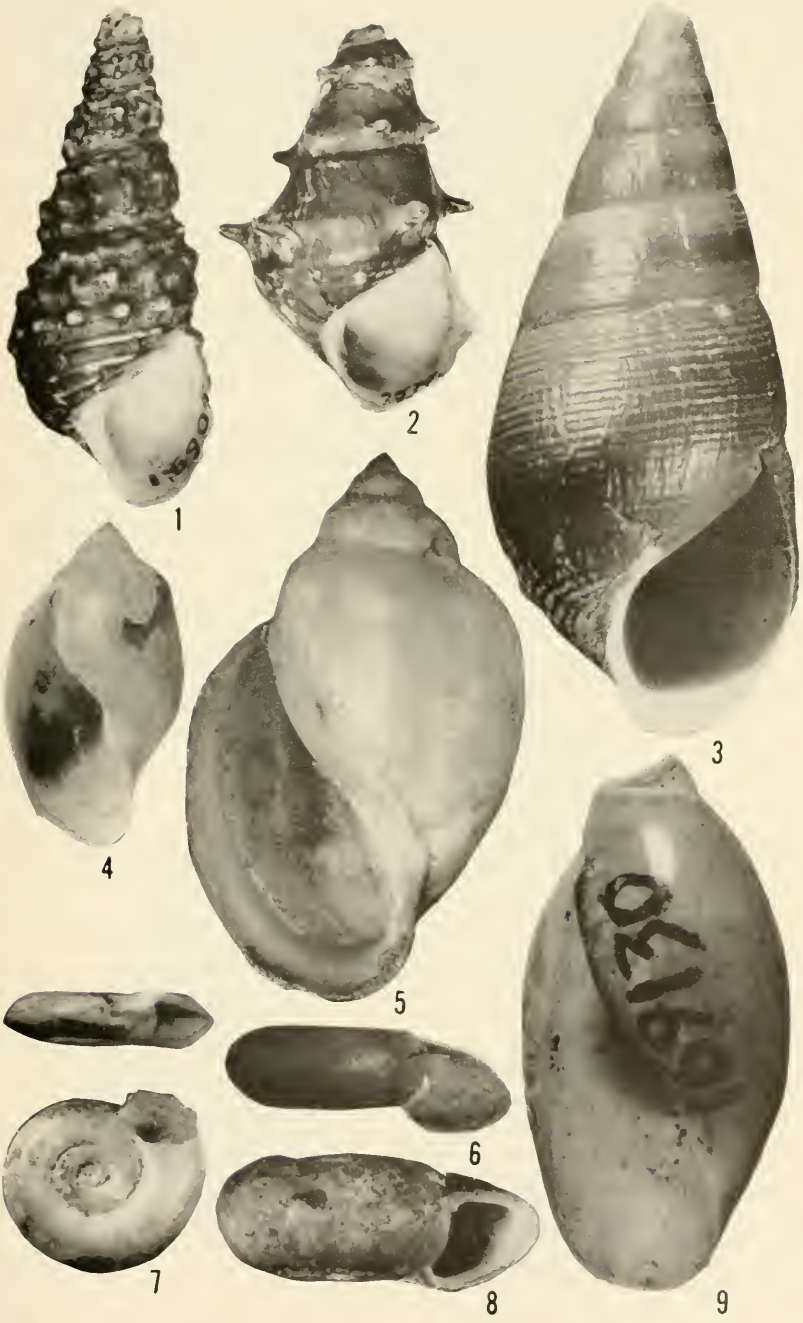
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PLATE 45

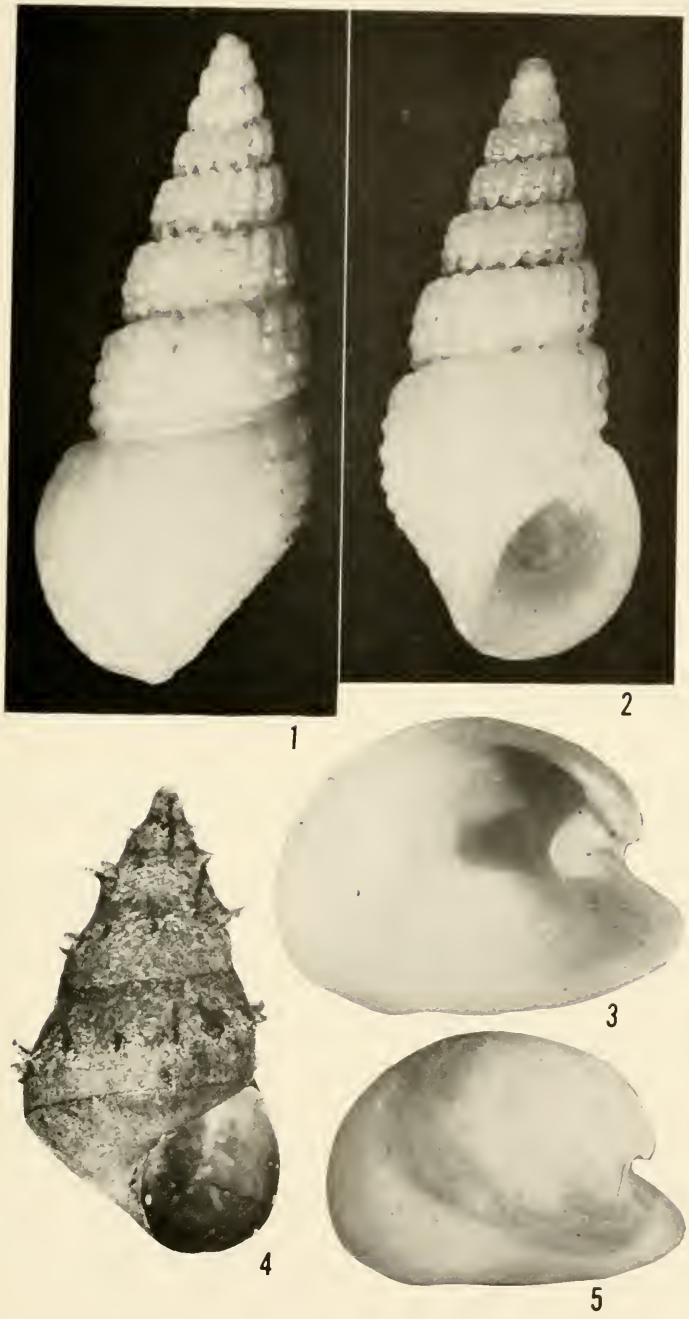
Fig. 1. *Rissiona villica* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype MCZ 169424. Height 5.3, width 2 mm. (approx. 16 x).

Fig. 2. *Rissoina villica* Gould. Loo Choo [Okinawa, Ryukyu Islands]. Lectotype MCZ 169424. Height 5.3, width 2 mm. (approx. 16 x).

Fig. 3. *Julia exquisita* Gould. Sandwich [Hawaiian] Islands. Paratype Cornell Univ. Paleo. Dept. 17774. Length 5, height 3.5, width 2 mm. (11 x).

Fig. 4. *Amnicola ciliata* Gould. Deea [Gbea or Mano] River, Liberia. Lectotype Amer. Mus. Nat. Hist. 71067. Height 6, width 3.3 mm. (11 x).

Fig. 5. *Julia exquisita* Gould. Sandwich [Hawaiian] Islands. Lectotype Cornell Univ. Paleo. Dept. 17774. Length 4.5, height 3, width 2 mm. (11 x).



Literature Cited

ANONYMOUS

1862. List of Exploring Expedition shells in the collection of the State Museum. 15th Ann. Rep. New York State Mus. Nat. Hist., Albany, pp. 23–25.

The 273 lots in this collection probably represent a typical collection of duplicates sent out by the Smithsonian.

1865. Duplicate shells collected by the United States Exploring Expedition under Capt. C. Wilkes, U.S.N. [listed under Smithsonian Misc. Coll., but issued only as a separate], no. 193, 4 pp.

This list enumerates 417 duplicate species, nos. 7304–7721.

1867. Catalogue of the valuable scientific, medical and miscellaneous library of the late Dr. A. A. Gould to be sold by auction May 29 at the rooms of Leonard & Co., No. 50, Bromfield Street, Boston, Massachusetts, 17 pp.

1875. List of Gould types in the collection of the State Museum. 27th Ann. Rep. New York State Mus. Nat. Hist., Albany, pp. 47–55.

1884. Unionidae of the Gould collection. 35th Ann. Rep. New York State Mus. Nat. Hist., Albany, pp. 68–83.

Fifty-two species and one variety are listed.

BARTLETT, HARLEY H.

1940. The reports of the Wilkes expedition, and the work of the specialists in science: Gould's "Mollusca and shells," vol. 12. Proc. Amer. Philos. Soc., vol. 82, pp. 650–655.

BARTSCH, PAUL

1946. Biographical sketch of William Healey Dall. *In* P. Bartsch, H. A. Rehder, and B. E. Shield, A bibliography and short biographical sketch of William Healey Dall. Smithsonian Misc. Coll., vol. 104, no. 15, pp. 1–16.

BINNEY, WILLIAM G.

1893. Gould's types and mss. Nautilus, vol. 6, p. 95.

BOUVÉ, THOMAS T.

1880. Historical sketch of the Boston Society of Natural History with a notice of the Linnaean Society which preceded it. Anniv. Mem. Boston Soc. Nat. Hist., 250 pp.

Contains a life of Gould based on Jeffries Wyman's account, pp. 112–116, accompanied by a portrait, and a life of J. P. Couthouy, pp. 134–135.

CARPENTER, PHILIP P.

1856. *See* Gould, Augustus A., and Carpenter, P. P.

1857. Report on the present state of our knowledge with regard to the mollusca of the West Coast of North America. Rep. British Assoc. Adv. Sci. 1856, 4+159–368 pp., pls. 6–9.

1864. Supplementary report on the present state of our knowledge with regard to the mollusca of the West Coast of North America. Rep. British Assoc. Adv. Sci. 1863, pp. 517–686.

Reprinted *in* Carpenter, 1872, pp 1–172.

665-231—64——20

Carpenter, Philip P.— Continued
1872. The mollusks of western North America: Embracing the second report made to the British Association on this subject, with other papers; reprinted with permission and a general index. Smithsonian Misc. Coll., vol. 10, art. 1, pp. 446.
1866. On the Pleistocene fossils collected by Col. E. Jewett, at Santa Barbara, California; with descriptions of new species. Ann. Mag. Nat. Hist., ser. 3, vol. 17, pp. 274–278.

Clarke, Jr., Arthur H.
1960. Catalogue and illustrations of mollusks described by Wesley Newcomb, with a biographical résumé. Bull. Amer. Paleo., vol. 41, no. 188, pp. 135–160, pl. 17.

Couthouy, Joseph P.
1839. Journal on board the *Vincennes*, Jan. 30 to Oct. 29, 1839, 311 pp. A manuscript volume in the Museum of Science library, formerly the Boston Society of Natural History, Boston, Mass.

Dall, William H.
1888. Some American conchologists. Proc. Biol. Soc. Washington, vol. 4, pp. 95–134.
1892. Gould's North Pacific Exploring Expedition types. Nautilus, vol. 6, p. 84.
1905. *See* Wyman, Jeffries, 1905.

Dupree, A. Hunter
1957. Science in the Federal Government: A history of policies and activities to 1940. Cambridge: Harvard Univ. Press, 460 pp.

Gould, Augustus A.
1841. Report on the invertebrata of Massachusetts, comprising the mollusca, annelida, and radiata. Cambridge, Mass., vi+373 pp., figs. 213.
1852. Mollusca and shells. Vol. 12 *in* United States Exploring Expedition during the years 1838–1842 under the command of Charles Wilkes, U.S.N. Boston, Mass., xv+510 pp.

Gould, Augustus A., and Carpenter, P. P.
1856 [1857]. Description of shells from the Gulf of California, and the Pacific coasts of Mexico and California, Part II. Proc. Zool. Soc. London, pt. 24, pp. 198–208.

Habe, Tadashige
1960. Notes on the species of Japanese shells described by A. A. Gould. Venus: Japanese Journ. Malacol., vol. 21, pp. 10–31.
This paper is based on some of the types figured here for the first time which Dr. Habe observed at the United States National Museum and the Museum of Comparative Zoology.

Haskell, Daniel C.
1942. The United States Exploring Expedition, 1838–1842, and its publications, 1844–1874. New York Public Library, 188 pp.
This is a very erudite and definitive work on the subject; the present author freely acknowledges his debt to Mr. Haskell for many of the letters and notes quoted. The bibliography on the expedition publications is unsurpassed.

Hedley, Charles
1914. The Australian journal of Dr. W. Stimpson, zoologist. Journ. Proc. Roy. Soc. New South Wales, vol. 48, pp. 140–151.

JOHNSON, RICHARD I.

1946. Joseph Pitty Couthouy—A bibliography and catalogue of his species. Mus. Comp. Zool. Occas. Pap. Mollusks, vol. 1, pp. 33–40.

1955. Augustus Addison Gould. Ann. Rep. Amer. Malacol. Union 1955, no. 22, pp. 12–13.

1960. Unearthing Gould's types. Ann. Rep. Amer. Malacol. Union 1959, no. 26, pp. 12–13.

MAYER, ALFRED G.

1919. William Stimpson. Nat. Acad. Sci. U.S.A. Biogr. Mem., vol. 8, pp. 419–433.

MARSHALL, WILLIAM B.

1892. Gould's types of *Nassa* and *Columbella*. Nautilus, vol. 6, pp. 47–48.

MASON, FRANCIS

1852. Tenasserim or notes on the fauna, flora, minerals, and nations of British Burmah and Pegu with systematic catalogues of the known minerals, plants, mammals, fishes, mollusks, etc. Maulmain: American Mission Press, viii+712 pp.

PALMER, KATHERINE VAN W.

1950. Notes and illustrations of type and comparative specimens of recent Pacific pelecypods. Journ. de Conch., vol. 90, pp. 190–194, 1 pl.

1958. Type specimens of marine mollusca described by P. P. Carpenter from the West Coast (San Diego to British Columbia). Geol. Soc. Amer. Mem., no. 76, 376 pp.

POESCH, JESSIE

1961. Titian Ramsay Peale, 1799–1885. Mem. Amer. Philos. Soc., vol. 52, 214 pp., 77 text figs.

In addition to containing an interesting account of the United States Exploring Expedition, this work includes Peale's journal of the voyage.

STIMPSON, WILLIAM

[unpubl.] Journal of a cruise in the U. S. ship *Vincennes* to the North Pacific Ocean, China Seas, Behring's Straits, etc., by William Stimpson (zoologist to the expedition) 1853–1855, 296 pp.

This unpublished manuscript is in the library of the Division of Mollusks, United States National Museum, Washington, D.C.

WILKES, CHARLES

1844. Narrative of the United States Exploring Expedition during the years 1838, 1839, 1840, 1841, 1842 . . . in five volumes and an atlas. Philadelphia, Pennsylvania.

The narrative went through many editions. For a complete bibliography of them, see Haskell, D. C., 1942, pp. 31–47.

WYMAN, JEFFRIES

1867. An account of the life and scientific career of the late Dr. A. A. Gould. Proc. Boston Soc. Nat. Hist., vol. 11, pp. 188–205.

1905. Biographical memoir of Augustus Addison Gould. Nat. Acad. Sci. U. S. A. Biogr. Mem., vol. 5, pp. 91–103.

With additions by W. H. Dall. Contains a list of the societies and institutions of which Dr. Gould was a member plus an exhaustive bibliography of his publications.

YEN, TENG-CHIEN

1942. A review of Chinese gastropods in the British Museum. Proc. Malacol. Soc. London, vol. 24, pp. 170–289, pls. 11–28.

A number of Gould's species are figured from specimens in the collection of H. Cuming in the British Museum (Natural History). The specimens are probably syntypes received from Gould. No species were figured that were not found in the United States National Museum or Gould's "type collection."

1944. Notes on some unfigured type-specimens of Chinese mollusks from the North Pacific Exploring Expedition. Proc. California Acad. Sci., ser. 4, vol. 23, no. 38, pp. 561–586, pls. 50–51.

A List of Gould's Works on Recent Mollusca

1833. Lamarck's genera of shells with a catalogue of species. Transl. from French. Boston, Massachusetts, xiii+110 pp., frontisp.

1837. List of shells found in Maine. *In* C. T. Jackson, First report on the geology of the state of Maine, Augusta, Maine, p. 119.

1838. Dr. Gould's report (on molluscous and the other lower animals). *In* Reports of the commissioners on the zoological survey of the state. Massachusetts House Doc. no. 72, pp. 105–107.

1839. Report on a paper by J. P. Couthouy on *Thracia conradi*, with Rev. W. P. Greenwood. Silliman's Amer. Journ. Sci. Arts, ser. 1, vol. 36 (April–July), pp. 379–380.

Scientific proceedings of the Boston Society of Natural History in the months of June, July, and August, 1838, drawn from the records of the Society by A. A. Gould, Recording Secretary. Silliman's Amer. Journ. Sci. Arts, ser. 1, vol. 36 (April–July), pp. 379–393; vol. 37, (July–Oct.), pp. 391–397.

[Remarks on *Helix aspera* from Portland, Maine, compiled from Proc. Boston Soc. Nat. Hist.] Silliman's Amer. Journ. Sci. Arts, ser. 1, vol. 37 (July–Oct.), p. 392.

Remarks on *Rostellaria occidentalis*. Silliman's Amer. Journ. Sci. Arts, ser. 1, vol. 37 (July–Oct.), p. 396.

1840. *Delphinula minor* Adams is a synonym of *Helix corpuloides Montagu* (compiled from Proc. Boston Soc. Nat. Hist.). Silliman's Amer. Journ. Sci. Arts, ser. 1, vol. 38 (Jan.), p. 193.

[Descriptions of thirteen new species of shells.] Silliman's Amer. Journ. Sci. Arts, ser. 1, vol. 38 (Jan.), p. 196.

Report of shells from California. Silliman's Amer. Journ. Sci. Arts, ser. 1, vol. 38 (Jan.), p. 396.

1840–1843. Monograph of the species of *Pupa* found in the United States, with figures. Boston Journ. Nat. Hist., vol. 3 (July 1840), pp. 395–404, pl. 3; vol. 4 (April 1843), pp. 350–360, pl. 16.

Also reprinted in pamphlet form and repaged: 18 pp.

Results of an examination of the shells of Massachusetts, and their geographical distribution. Boston Journ. Nat. Hist., vol. 3 (Nov.), pp. 483–494.

1841. Report on the invertebrata of Massachusetts, comprising the mollusca, annelida, and radiata. Cambridge, Mass., vi+373 pp., 15 pls., comprising 213 figs.

1842. Characters of shells to be fully described in the next number of the Journal. Boston Journ. Nat. Hist., vol. 4 (Jan.), no. 1, back cover.

1843. [Remarks on the number and distribution of species of Testacea of Massachusetts.] Proc. Boston Soc. Nat. Hist., vol. 1, pp. 6–7.

Notice of *Paludina ponderosa*. Proc. Boston Soc. Nat. Hist., vol. 1, p. 32.

[Review of a paper by Henry C. Lea from Silliman's Journal, purporting to describe eight new species of shells.] Proc. Boston Soc. Nat. Hist., vol. 1, p. 61.

Remarks on the variations of a species of *Neritina*. Proc. Boston Soc. Nat. Hist., vol. 1, p. 71.

[The locomotive powers of *Mytilus edulis*.] Proc. Boston Soc. Nat. Hist., vol. 1, p. 72.

Notice of Sowerby's *Thesaurus Conchyliorum*, no. 1. Proc. Boston Soc. Nat. Hist., vol. 1, p. 86.

[Remarks on the "Mollusca of Vermont," by C. B. Adams.] Proc. Boston Soc. Nat. Hist., vol. 1, p. 89.

[Remarks on a paper on the *Pupa* found in the United States by Amos Binney.] Proc. Boston Soc. Nat. Hist., vol. 1, p. 106.

Notice of some works recently published on the nomenclature of zoology. Silliman's Amer. Journ. Sci. Arts, ser. 1, vol. 45 (April–June), pp. 1–12.

[Remarks on "A catalogue of the marine, fluviatile, and terrestrial shells of the State of Maine and adjacent ocean," by J. W. Mighels, Portland (Maine) 1843.] Proc. Boston Soc. Nat. Hist., vol. 1, pp. 117–118.

Notice of "Monograph of the fresh-water univalve mollusca of the United States" by S. S. Haldeman. Proc. Boston Soc. Nat. Hist., vol. 1 (Oct.), pp. 132–133.

[Synonomy of certain species of shells described on the cover of the Boston Journ. Nat. Hist., vol. 4, no. 1.] Proc. Boston Soc. Nat. Hist., vol. 1 (Oct.), pp. 137–138.

[Descriptions of three new species of shells.] Proc. Boston Soc. Nat. Hist., vol. 1 (Oct.), p. 138.

Conclusion of "Monograph of the Pupadae of the United States." Proc. Boston Soc. Nat. Hist., vol. 1 (Oct.), pp. 138–139.

Also reprinted in pamphlet form and repaged.

[Description of shells from the province of Tavoy, British Burma, collected by Francis Mason.] Proc. Boston Soc. Nat. Hist., vol. 1 (Oct.), pp. 139–141, 144.

Also reprinted in pamphlet form and repaged.

Report on papers of the Rev. R. T. Lowe relating to the plants and land shells of Madeira. Proc. Boston Soc. Nat. Hist., vol. 1 (Nov.), pp. 148–149.

Title only, no text.

[Remarks on the nature of the respiratory system of the animals of *Melampus* and *Pedipes*.] Proc. Boston Soc. Nat. Hist., vol. 1 (Nov.), p. 149.

[Descriptions of eight new shells received from Drs. Savage and Perkins from Africa.] Proc. Boston Soc. Nat. Hist., vol. 1 (Dec.), pp. 157–158.

Descriptions of two new species of *Anodon* from the river Salwen in British Burmah, sent . . . by Rev. F. Mason. Proc. Boston Soc. Nat. Hist., vol. 1 (Dec.), p. 160.

1844. Descriptions of land shells from the Province of Tavoy, in British Burmah. Boston Journ. Nat. Hist., vol. 4 (Jan.), pp. 452–459, pl. 24 [part].

Descriptions and notices of some of the land shells of Cuba. Boston Journ. Nat. Hist., vol. 4 (Jan.), pp. 485–498, pl. 24 [part].

[*Pseudodon*, a new subgenus.] Proc. Boston Soc. Nat. Hist., vol. 1 (May), p. 161.

[On *Helix lucida*.] Proc. Boston Soc. Nat. Hist., vol. 1 (May), p. 174.

[Two new species of *Helix* from the Sandwich Islands.] Proc. Boston Soc. Nat. Hist., vol. 1 (May), p. 174.

[Remarks on *Pupa costulata* Mighels.] Proc. Boston Soc. Nat. Hist., vol. 1 (Oct.), p. 189.

[Notice of] a paper by Mr. I. Lea, describing shells supposed to be new. Proc. Boston Soc. Nat. Hist., vol. 1 (Oct.), pp. 183–184.

1845. [Twelve new species of land shells from the Sandwich Islands.] Proc. Boston Soc. Nat. Hist., vol. 2 (Jan.), pp. 26–28.

Descriptions of shells collected by Dr. Charles J. Bates . . . on the coast of Liberia. Proc. Boston Soc. Nat. Hist., vol. 2, pp. 37–38.

While February appears as the date on the signature, the descriptions were read in March; thus the date of actual publication probably falls between March and July, the date on the subsequent signature.

[Description of two new species of Unionidae collected by Mr. John Bartlett in the Everglades of Florida.] Proc. Boston Soc. Nat. Hist., vol. 2, p. 53.

While July appears as the date on the signature, the descriptions were read in August; thus the date of actual publication probably falls between August and December, the date on the subsequent signature.

Descriptions of shells from the coast of Africa. Boston Journ. Nat. Hist., vol. 5 (Oct.), pp. 290–294, pl. 24.

[Remarks on *Pholas costata* and *truncata*.] Proc. Boston Soc. Nat. Hist., vol. 2 (Dec.), pp. 81–82.

Remarks on the distinctive characters of *Lottia* and *Patella*. Proc. Boston Soc. Nat. Hist., vol. 2 (Dec.), pp. 83–84.

1846. [Descriptions of] shells, sent from Tavoy, in Burmah, by the Rev. Mr. Mason. Proc. Boston Soc. Nat. Hist., vol. 2, pp. 98–100.

While January appears as the date on the signature, the descriptions were read in February; thus the date of actual publication probably falls between February and April, the date on the subsequent signature.

A species of *Bulimus* from the Organ Mountains, Brazil, lately presented to the Society by Mrs. A. H. Everett. Proc. Boston Soc. Nat. Hist., vol. 2, p. 101.

See note under preceding entry.

1846–1850. [Shells collected by the United States Exploring Expedition under the command of Charles Wilkes.] Proc. Boston Soc. Nat. Hist.:

vol. 2, 1846,	July,	pp. 141–145; 148–152.
	August,	pp. 153–156; 159–162; 165–167.
	September,	pp. 170–173; 175–176.
	November,*	pp. 177–179; 180–184; 185–187; 190–192.
1847,	March,	pp. 196–198; 200–203; 204–208.
	June,	pp. 209; 210–212; 214–215; 222–224.
	July,	pp. 225; 237–239.
	December,	pp. 251–252.

vol. 3, 1848, November, pp. 73–75.
1849, March, pp. 83–85; 89–92.
April, pp. 106–109.
May, pp. 118–121; 140–144.
1850, January, pp. 151–156; 169–172.
May, pp. 214–219.
June, pp. 252–256.
July, pp. 276–278.
November, pp. 292–296; 309–312.
December, pp. 343–348.

*Since some of the descriptions in this signature were read on December 16, it was probably printed between that date and March, the date of the subsequent signature.

1847. Note to " 'Description of two new species of shells,' by William Case." Silliman's Amer. Journ. Sci. Arts, ser. 2, vol. 3 (Jan.), p. 101.

[*Helix annulata* Case is an immature shell of *Helix striatella* Anthony.] Silliman's Amer. Journ. Sci. Arts, ser. 2, vol. 3 (March), p. 276.

New shells, received from Rev. Mr. Mason, of Burmah, several of which had been furnished by the lady of one of his associates, Mrs. Vinton. Proc. Boston Soc. Nat. Hist., vol. 2 (June), pp. 218–221.

[Remarks on *Planorbis multivolvis*.] Proc. Boston Soc. Nat. Hist., vol. 2 (Dec.), p. 259.

[Descriptions of two new species of shells collected by Dr. C. T. Jackson and T. R. Dutton on the shores of Lake Superior; and a new *Natica* from Florida.] Proc. Boston Soc. Nat. Hist., vol. 2 (Dec.), pp. 262–263, text illustr.

1848. [With Louis Agassiz.] Principles of zoology, touching the structure, development, distribution and natural arrangement of the races of animals, living and extinct: With numerous illustrations; for the use of schools and colleges. Part 1, Comparative physiology. Boston.

English edition, revised by Th. Wright, London, 1867; German edition, Stuttgart, 1851; revised edition, 1852, 1860, 1861, 1872.

[Deposition of authentic specimens.] Proc. Boston Soc. Nat. Hist., vol. 3 (Jan.), p. 5.

[*Bulla solitara* from Plymouth Beach.] Proc. Boston Soc. Nat. Hist., vol. 3 (Jan.), p. 9.

[New shells from the southwestern states collected by J. Bartlett for the late Dr. Amos Binney.] Proc. Boston Soc. Nat. Hist., vol. 3 (June), pp. 37–41.

Descriptions of shells found in Connecticut, collected and named by the late Rev. J. H. Linsley. Silliman's Amer. Journ. Sci. Arts, ser. 2, vol. 6 (Sept.), pp. 233–236.

[Descriptions of two new species of shells.] Proc. Boston Soc. Nat. Hist., vol. 3 (Oct.), pp. 64–65.

1849. [As editor.] The naturalist's library, containing scientific and popular descriptions of man, quadrupeds, birds, fishes, reptiles and insects; compiled from the works of Cuvier, Griffith, Richardson, Geoffroy, Lacépède, Buffon, Goldsmith, Shaw, Montague, Wilson, Lewis and Clarke, Audubon and other writers on natural history; arranged according to the classification of Stark, with 400 engravings. Boston.

1850. [Remarks on *Lymnaea* and *Helix hortensis*.] Proc. Boston Soc. Nat. Hist., vol. 3 (March), p. 181.

[New species of shells from Africa, presented by Dr. Perkins.] Proc. Boston Soc. Nat. Hist., vol. 3 (April), pp. 193–197.

Catalogue of shells, with descriptions of new species. Pp. 243–245 *in* part 5 *of* Lake Superior: Its physical character, vegetation, and animals, by Louis Agassiz, Boston.

1851, 1857. [Edited and partly written by Gould.] The terrestrial air-breathing molluscs of the United States, and the adjacent territories of North America, by Amos Binney. Boston, 1851, vol. 1, xxix+366 pp., 16 pls.; vol. 2, 362 pp.; 1857, vol. 3, Atlas, 40 pp., 74 pls. (6a, 11a, 22a, 26a, 29a, 40a, 40a [two states], 51a, 51b, 62a, 67a, 67b, 67c [+2 pls. numbered 72]—most plates hand-colored).

[Remarks on California shells.] Proc. Boston Soc. Nat. Hist., vol. 4 (July), pp. 27–28.

[Descriptions of new shells from California, collected by Maj. William Rich and Lieut. T. P. Green, U.S.N.] Proc. Boston Soc. Nat. Hist., vol. 4 (Nov.), pp. 87–93.

1852, 1856, 1861. Mollusca and shells. Vol. 12 *in* United States Exploring Expedition during the years 1839–1842 under the command of Charles Wilkes, U.S.N. Boston, December 1852, xv+510 pp.; Addenda and corrigenda, Philadelphia [1856], pp. 499–509; Atlas, Philadelphia, 1856 [1861], 16 pp.+52 hand-colored pls.

For a complete collation of this work and a discussion of the official and unofficial editions (no important differences), *see* Haskell, Daniel C.

1853. Descriptions of shells from the Gulf of California and the Pacific coasts of Mexico and California. Boston Journ. Nat. Hist., vol. 6 (Oct.), pp. 374–407, pls. 14–16.

[On the attempts to bring living fresh-water shells from Cuba and England to this country.] Proc. Boston Soc. Nat. Hist., vol. 4 (April), pp. 287–288.

1854. [Remarks on the collection of shells made by Col. Perkins and on the *Nautilus*.] Proc. Boston Soc. Nat. Hist., vol. 5 (Oct.), pp. 35–36.

[Remarks on Dr. Burnett's paper on the development of mollusks in Holothuridae.] Proc. Boston Soc. Nat. Hist., vol. 4 (April), p. 373.

1855. List of shells brought home by the U.S.N. Astronomical Expedition. *In* United States Naval Astronomical Expedition to the Southern Hemisphere during the years 1849–1852, Lt. J. M. Gilliss, Superint., Washington, p. 263.

[Remarks on *Pedicularia*, with a description of a new species.] Proc. Boston Soc. Nat. Hist., vol. 5 (Feb.), pp. 126–127.

The results of an examination of some deep dredgings off the coast of Georgia and Florida, by the officers of the Coast Survey. Proc. Boston Soc. Nat. Hist., vol. 5 (Feb.), pp. 126–127.

New species of land and fresh-water shells from Western North America. Proc. Boston Soc. Nat. Hist., vol. 5 (Feb.), pp. 127–128; (March), pp. 129–130; (Oct.), pp. 228–229.

Catalogue of shells collected in California by W. P. Blake, with descriptions of the new species. Appendix, art. 2, pp. 22–28, *of* Preliminary geological report, by W. P. Blake, *in* Report of a reconnaissance and survey in California in connection with explorations for a practicable railway route from the Mississippi River to the Pacific Ocean in 1853 by Lt.

R. S. Williamson. Washington, D.C.: U.S. House of Representatives, Doc. 129, 33rd Congress, 1st session.

Published as a separate but not included in the Congressional Reports.

1856. Catalogue of recent shells, with descriptions of the new species. Appendix, art. 3, pp. 330–336, pl. 11, *of* pt. 2, Geological report, by W. P. Blake, *in* vol. 5, Report of explorations in California for railroad routes to connect with the routes near the 35th and 32nd parallels of north latitude by Lt. R. S. Williamson, 1853, *in* Reports of explorations and surveys to ascertain the most practicable and economical route for a railroad from the Mississippi River to the Pacific Ocean, made under the direction of the Secretary of War in 1853–1854, Washington, D.C.

[Descriptions of new shells.] Proc. Boston Soc. Nat. Hist., vol. 6 (Oct.), pp. 11–16.

1857. On the true *Nautilus umbilicatus* of Lister. Proc. Zool. Soc. London, vol. 25, pp. 20–22.

Also *in* Annals and Mag. Nat. Hist., ser. 2, vol. 20, pp. 57–59.

[With P. P. Carpenter.] Descriptions of shells from the Gulf of California, and the Pacific Coasts of Mexico and California, part 2. Proc. Zool. Soc. London, pt. 24, pp. 198–208, 1856 [1857].

[Remarks on a *Helix* from E. S. Morse of Portland, Maine.] Proc. Boston Soc. Nat. Hist., vol. 6 (Jan.), p. 72.

[Remarks on the geographical distribution of shells.] Proc. Boston Soc. Nat. Hist., vol. 6 (March), pp. 123–124.

1859–1860. Descriptions of shells collected in the North Pacific Exploring Expedition under Captains Ringgold and Rodgers. Proc. Boston Soc. Nat. Hist.:

vol. 6, 1859,	February,	pp. 422–426.
vol. 7,	June,	pp. 40–45.
	October,	pp. 138–142.
	December,	pp. 161–166.
1860,	September,	pp. 323–336.
	October,	pp. 337–340.
	December,	pp. 382–384.
1861,	January,	pp. 385–389.
	February,	pp. 401–409.
vol. 8,	March,	pp. 14–32.
	April,	pp. 33–40.

1859. [On the relations of genera to geographical distribution.] Proc. Boston Soc. Nat. Hist., vol. 7 (Dec.), p. 167.

1860. On the distribution of land-shells on the islands in the Pacific Ocean. Proc. Amer. Acad. Arts Sci., vol. 4, p. 195.

[Statements illustrating the power of external agencies in the distribution of the shells of Japan.] Proc. Amer. Acad. Arts Sci., vol. 4, p. 201.

1861. [On the specific distribution of faunae far removed from one another.] Proc. Boston Soc. Nat. Hist., vol. 8 (May), p. 98.

[Notes on mollusks that inhabit excavations.] Proc. Boston Soc. Nat. Hist., vol. 8 (May), p. 105.

1862. Descriptions of new genera and species of shells. Proc. Boston Soc. Nat. Hist., vol. 8 (Feb.), 280–284 pp.

[On animal life in the ocean at great depths.] Proc. Boston Soc. Nat. Hist., vol. 8 (Feb.), p. 284.

Otia Conchologia: Descriptions of shells and mollusks from 1839 to 1862. Boston, [4]+256 pp.

1864. [Remarks on erosion in mollusks.] Proc. Boston Soc. Nat. Hist., vol. 9 (March), p. 327.

1865. Epitome of the records of the Linnaean Society of New England. Proc. Boston Soc. Nat. Hist., vol. 9 (Feb.), pp. 335–340.

[Remarks on the diversity among conchologists in the application of terms in the description of shells.] Proc. Boston Soc. Nat. Hist., vol. 10 (Dec.), pp. 77–78.

Notice of the origin, progress and present condition of the Boston Society of Natural History. Amer. Quart. Reg., vol. 14, pp. 236–241.

Remarks on mollusca and shells: 1. On the zoological regions; 2. Specific identity of shells; 3. Local aspect of species and characteristic forms of regions; 4. Analogous species in coordinate regions. Edinburgh New Philos. Journ., vol. 56, pp. 74–80.

1866. [Remarks on the habits of the *Teredo*, or shipworm.] Proc. Boston Soc. Nat. Hist., vol. 11 (Dec.), p. 23.

1870. Report on the invertebrata of Massachusetts. Second edition, comprising the Mollusca. Edited by W. G. Binney. Boston, v[3]+524 pp., text figs. 350–754, colored pls. 16–27 comprising figs. 214–349.

The copies of this work distributed by Dr. Gould's family have a two-page sketch of his life inserted after the prefatory remarks of Mr. Binney.

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